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ESSAYS

ON SEVERAL

Important Subjects

PHILOSOPHY

AND

RELIGION.

By Joseph Glanvill, Chaplain in Ordinary to His Majesty, and Fellow of the R. S.

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ESSAYS.

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- I. Against CONFIDENCE in PHI-LOSOPHY.
- II. Of SCEPTICISM, and CERTAINTY.
- III. MODERN IMPROVEMENTS of Knowledg.
- IV. The USEFULNESS of PHI-LOSOPHY to THEOLOGY.
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HENRY

Lord Marquess, and Earl of Worcester, Earl of Glamorgan;

Lord HERBERT

Of Chepstow, Ragland, and Goure, Lord President of Wales,

Lord Lieutenant of the Counties of Glocester, Hereford, Monmouth, and Bristol;

Knight of the most Noble Order of the Garter, And one of the Lords of His Majesties most Honourable Privy Council, &c.

MY LORD,

Lthough perhaps in strictness of judging there is somewhat of Impertinency in such Addresses, yet Custome hath obtain'd licence for us Writers thus to express our acknowledgments of favours, and to give publick testimonies to the Deserts of excellent Persons: Your Lordship affords me plenty of subject for both these, and I humbly crave your leave to use the Liberty that is granted

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granted without censure on such occasions, tod declare part of my resentments of them are no

There is nothing more substantial, or valuable in Greatness, than the power it gives to oblige; for by doing benefits we in some measure are like to Him, who is the Lover of Men, and causeth his Sun to shine upon the good, and upon the evil: Nor doth God Himself glory in the absoluteness of his Power, and uncontroulableness of his Soveraign Willy as he doth in the displays of his Goodness: This, my Lord, is the right, and honourable use of that Greatness he is pleased to vouch safe unto Men; and this is that which makes it amiable, and truly illustrious: Your Lordship knows this, and are as much by Nature as by Judgment, formed to live according to fuch measures: And I think there was never Person of your Lordship's rank, whose general fashion, and conversation was more suited to the sweetest and most obliging Rules of living: For besides that your natural Genius hath nothing haughty, or rough in it, nothing but what is modest, gentle, and agreeable, your Lordships whole deportment is so affable, and condescending, that the benignity of your temgreatness of your quality, which yet it no

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way lessens, but illustrates. This is that which highly deserves, and commands the love, and venerations of all that have the honour, and happiness to know you : And you may justly challenge their devotion, and highest esteem upon all other accounts that can give a great Person any title to them. For your immediate descent is from a long masculine line of great Nobles, and you are a Remainder of the illustrious Blood of the PLANTAGENETS. What your Family hath deferv'd from the Crown, the vast supplies afforded his late Majesty by that Loyal Marquess, your Grand-Father; and the sufferings of your House for Him, do sufficiently declare to the World: But your Lordship hath no need that Arguments of Honour, and respect should be fetcht from your Progenitors; the highest are due to your personal Vertues, and that way of living whereby you give example to Men of quality, and shew, how Honour, and Interest is to be upheld. For you spend not your time, and Estate in the Vanities and Vices of the Town, but live to your Country, and in it, after a splendid, and most honourable Fashion, observing the Magnificence and Charity of the ancient Nobility, with all the Decency, and Improvements of latter Times. And perhaps your Jord to your quality which yet it no

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Lordship's way is one of the best patterns the Age yields, of a Regular greatness, in which grandeur is without vanity; and Nobleness without Luxury, or Intemperance: Where we see a rast Family without noise, or confusion; and the greatest plenty, and freedom, without provocations to any Debauchery, or Disorder. So that your Lordship's cares, and thoughts are not taken up with the little designs that usually entertain idle, or vainly imployed Men, but in the Service of your King, and Country, and conduct of your Affairs, with prudence and generofity; in which you not only ferve the present Age, but provide for the future. And, my Lord, among the acknowledge ments that are due to your Vertues, I cannot but observe the care you take for the constant, daily Worship of God in your Family, according to the Protestant Religion, profest by the Church of England, and the example your Lordship gives by your own attendance on it. This is the furest Foundation of greatness, yea 'tis the Crown, and lustre of it: And when all other magnificence is in the dust, and is shrivel'd into nothing, or at the best, into a cold, and faint remembrance, the effects of this will stay by us, and be our happiness for ever; And all other splendors, in comparison, are but like,

The Epistle Dedicatory.

like the shining of rotten wood to the Glorys of the Sun, and Stars. This also is the best fence and security to our present comforts and injoyments, both in respect of that temperance and Sobriety it produceth, and chiefly on the account of the bleffing of the Supream Donor, who hath made it the promises of this Life, as well as of that which is to come: And therefore the wickedness of those that take Liberty from their Riches and worldly greatness, to defie God, and despise Religion, is as foolish and improvident, as 'tis monstrous and unreasonable: and those brutish Men do not render themselves more hateful for their impiety, than they are despicable for their folly. But I need not say this to your Lordship, who are sensible of the absurdities, and malignity of this vice, and give not the least countenance, or incouragement to it by your practice; being cautious to abstain from all expressions, that grate on the Honour of God, as you are free from any that can give just offence unto Men: For your Lordship is none of those that shoot the arrows of bitter words, and set their mouths against the Heavens; but your discourse and conversation is adorn'd with that modesty and decency that becomes a great Nobleman, and a good Christian.

My

My Lord, I have not given you these sew just acknowledgments, with design to gratistie or please your Lordship, I know I need your pardon for the trouble your modesty receives from them; but I have done it for the sake of others, because we live in an Age wherein there is scarcity of such examples. I know 'tis usually indecent to commend Persons to themselves; but the custome of Dedications will excuse this, which even severity and ill nature cannot impeach of flattery, or extravagance.

And as I owe this Testimony to the merits whereby you serve and oblige the Age, so I should acknowledg the Obligations your Lordship hath-conferr d on my self: but this will be a great duty, and business of my Life; for such empty expressions as these verbal ones, are very unsuitable returns for real and great favours; and if ever better acknowledgments are in my power, I shall still re-

member what I owe your Lordship.

I now most humbly present you with a Collection of some Essays upon subjects of importance. The design of them is to lay a foundation for a good habit of thoughts, both in Philosophy, and Theology. They were some of them written several years ago, and had trial

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of the World in divers Editions: Now they come abroad together (with fome things that are new) reduced to fuch an Order, as is most agreeable to my present judgment. I could have added much upon such fertile, and useful Arguments; but I am willing to believe, I have said enough for the capable and ingenious, and I doubt too much for others. If your Lordship shall pardon their imperfections, and accept of the devotion where-with they are offer'd you, it will be the greatest honour, and fatisfaction to,

Tour Lordships most humble,

on a sure record and a much of my Life, Ledrov Stoll Most obliged, and most intirely

devoted Servant, some in the property of that hill re-

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of the Preis, over which he man influence. The the things againft med P. A. P. P. R. P. P. The line of purchically made, and have never read them.

Shall not trouble the Reader with much formality, or tediousness of Prefacing, but only give a brief account of the
following Discourses. I know it will be no plausible excuse
for any of their Imperfections to alledg, that some of them
were written when I was very young; since they came abroad again
in an Age wherein more maturity of judgment is expected: But the
truth is, I am not grawn so much wifer yet, as to have alter'd any
thing in the main of those conceptions. If I had thought it worth
the while, I might have been more exact in new modelling, and
could perhaps have given them a turn that would have been mare
agreeable to some phancies, but my Laziness, or my Judgment
made me think there was no need of that trouble.

The FIRST Essay against Confidence in Philosophy, is quite changed in the way of Writing, and in the Order. Methought I was somewhat fetter'd and tied in doing it, and could not express my self with that ease, freedom, and fulues which possibly I might have commanded amid fresh thoughts: Yet'tis so alter'd as

to be in a manner new.

The SECOND of Scepticism, and Certainty, was written when I was warm in the Consideration of those matters, for the satisfation of a particular Friend; what I say was enough for his use, though the Subject is capable of much more; and I had inlarged on it, but that I am loth to ingage further in Philosophical Arguments. I have annext some of the things I said to Mr. White,

but the main of this Estay was never extant before.

The Third of Modern Improvements, was first a Controversie: I have here given it another shape. As I never begun a Quarrel, so I never will continue any, when I can fairly let it fall. The Discourse was written violently against by one, who was wholly unconcern'd. The interest he pretended, was the desence of his Faculty against a Passage, wherein he would have me say, That the ancient Physicians could not cure a Cut-singer; which I never affirm'd, or thought. But that Person is now so well known, that I need say no more of him, or of that Contest. His long studied, and triumphant Animadversions have given me no reason, or occasion to alter any thing in the Treatise, except some few Errors

The Preface.

of the Press, over which he most insulted. He hath written divers things against me since, but I have kept the promise I pub-

lickly made, and have never read them.

Besides this Antagonist, the learned Dr. Meric Casaubon, writ Restellions on this Essay in a Letter to Dr. Peter Du Moulin, who it seems had presented it to him. They were Printed in the year 1669, and my Answers soon after ready: But considering that the Doctor allow'd all that which was my main design, and only oppos'd his own mistakes, and suspicions, I thought sit to suppress my Reply; and was the rather silent because not willing to appear in a Controversie with a Person of Fame and Learning, who had treated me with so much Civility, and in a way so different from that of my other Assalants.

I have further to advertise concerning this Essiy, That whereas I mention several Discourses of Mr. Boyl's, as intended for the Publick, 'tis likely that some of them by this may be extant, though my privacy and retirement bath not afforded me the notice

of their publication.

The FOURTH Essay of the Usefulness of Philosophy to Theology, was Printed under the Title of Philosophia Pia. I was commanded to reprint it by a Person of Honour, and great Fame, for whose Learning and universal Accomplishments I have high and just venerations. This put into my thoughts the design of revising of some of my other Writings, and bringing them together

into a small Collection, which I have here done.

The Fifth of the Agreement of Reason and Religion. w. at first a Visitation Sermon, twice Printed before; I have now only cast it into the form of a Discourse. It contains the substance of many thoughts and anxieties about that important matter, in a little compass. My chief care was to state, and represent the whole affair clearly; which I think I have done. The subject bath been written on by divers since, who some of them have perplext the matter again; others have added no one thought. They have written a great deal, I wish I could say, to purpose. I know this freedom is capable of a wrong interpretation, but I am urged to it by a little vexation that the pretenders to such a subject should afford me no advantage for the improving my conceptions on it.

The Sixth Essay was one of the first written, and printed four times already. It stands in this place because it shows a pricu-

lar service Philosophy doth, in securing one of the out-works of Religion. The Damon of Tedworth that was anneat, is ready to be Printed by it self, with a further Confirmation of that certain, though much opposed Relation. Since the publishing of these Considerations there bath a thing been put out, of the Question of Witchcrast, denying there are Witches, upon some of the weakest pretences I have urged, and disabled. Who ever reads this Essay will see that that Writer was answered before he gave himself the trouble to be an Author on that Subject.

The SEVENTH is entirely new. Tis a description of such a Genius in Theology and Philosophy, as I confess I my self like; and I believe some others may. But I blame no Mans different sentiment, who allows the liberty of judging that himself takes. I have borrowed the countenance, and colour of my Lord Bacons story; of which I have given the brief contents. The Essay is a

mixture of an Idxa, and a disguised History.

Reader, I have done now: But I make thee no promise that I will not write again; for I perceive that those promises are hardly To appear often in the Press I know is censur'd; but I see not why that should be a fault, whilst the Books themselves have not greater. If a Man write well, he may deserve excuse at least; if otherwise, by use he may mend; or if there be no hopes of that, his writing often is not worth objecting. Nor hath any one need to complain, since no one is concern'd about what another Prints, further than himself pleaseth: And since Men have the liberty to read cur Books, or not: Methinks they might give us leave to write, or This I say, because I know this ill-natur'd bumour, puts restraint upon the Pens of Some great Men; and tempts others to make promises, and excuses, which I think do not become them. For my part I have as little leasure to write Books as other Men, for I have that to do which may be reckoned an Imployment; but every Man bath some vacancies, and I love now and then in this manner to imploy mine. 'Tis an innocent way of entertaining a Mans self, to paint the image of his thoughts, and no better a Writer than my felf may happen to divert, if not to instruct, some others by it.

ERRATA.

The Reader is defired to take notice of the following Errours of the Press, some of which are so near, in sound, to the words of the Author, that they may easily be mistaken for his.

ESSAY. I.

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ESSAY. VI.

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Note, that the Sum of my Lord Bacons Atlantis, being the brief contents of his Story, printed in the beginning of the 7th Essay, was intended as a Presace to it, and should have been in the Italick Character; but the Printer hath not done that; nor made a sufficient Break to distinguish my Lord Eacons Contents (ending Page 2. Line 12.) from the Authors Story.

Page. Line.

Estay I.

Against Confidence in Philosophy,

And Matters of Speculation.

NE of the first things to be done in order to the enlargement, and encrease of Knowledg, is to make Men sensible, how imperfest their Understandings are in the present state, and how lyable to deception: For hereby we are disposed to more mariness in our Enquiries, and taken off from bold and

peremptory Conclusions, which are some of the greatest hinderances of Intellectual improvements in the World. Therefore, by way of Introduction to Philosophy and grounded Science, we must endeavour first to destroy the confidence of Assertions, and to establish a prudent reservedness and modesty in Opinions. In order to this, I shall here set down some thoughts I have had on this Subject. And in doing it, I shall

1. Offer some considerable Instances of Humane Ignorance and Desiciency, even in the main, and most usual things in Nature. 2. I shall enquire into the Causes of our impersection in Knowledg, which will afford further evidence and proof of it: and 3. Add some Strictures against Dogmatizing in Philo-

Sophy, and all matters of uncertain Speculation.

My Instances shall be drawn, 1. From the Nature of our Souls; and 2. from the Constitution of our own, and other Bodies.

About the former I consider, That if Certainty were any where to be expected, one would think it should be had in the Notices of our Souls, which are our true selves, and whose Sentiments we most inwardly know: In things without us,

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our shallowness and ignorance need not be matter of much wonder, since we cannot pry into the hidden things of Nature, nor observe the first Springs and Wheels that set the rest in motion. We see but little parcels of the Works of God, and want Phanomena to make entire and secure Hypotheses: But if that whereby we know other things, know not it self; If our Souls are strangers to things within them, which they have more advantage to understand than they have in matters of external Nature; I think then, that this first will be a considerable Instance of the scantness and impersection of our Knowledg.

(1.) I take notice therefore, That the Learned have ever been at great odds and uncertainty about the Nature of the Soul; concerning which every Philosopher (almost) had a distinct Opinion: The Chaldwans held it a Vertue without form; Xenocrates, and the Ægyptians, a moving Number; Parmenides, a compound of Light and Darkness; Hesiod and Anaximander, a consistence of Earth and Water: Thales call'd it a Nature without rest; Heraclides supposed it to be Light; Empedocles to be Blood; Zeno, the Quintessence of the Elements. Galen would have it to be an hot Complexion; Hippocrates, a Spirit dissuffed through the Body; Plato, a self-moving Substance; Aristotle, an Entelechy, or no body knows what; and Varro, an heated and dispersed Air.

Thus have some, of the greatest Men of antient times differ'd in one of the first Theories of Humane Nature, which may well be reckon'd an Argument of uncertainty and imperfection: And yet I account not the difficulties about this, to be so hopeless, as they are in less noted Mysteries. The great occasion of this diversity, and these mistakes, is, That Men would form some Image of the Soul in their Fancies, as they do in the contemplation of corporeal Objects: But this is a wrong way of speculating Immaterials, which may be seen in their effects and attributes, by way of respection; but if, like Children, we run behind the Glass to look for them, we shall meet nothing

there but disappointment.

2. There hath been as much trouble and diversity in enquiing into the Origine of the Soul, as in searching into the nature of it: In the opinion of some learned Men, It was from the beginning of the World, created with the Heavens and

Light:

Light: others have thought it an extract from the Universal Soul: Some fancied, it descended from the Moon; others from the Stars, or vast spaces of the Ether above the Planets; fome teach, That God is the immediate Author of it; some that it was made by Angels; and some by the Parents. Whether it be Created or Traduced, bath been the great Ball of contention to the latter Ages, and after all the flir about it, 'tis still as much a question as ever, and perhaps may so continue till the great Day, that will put an end to all Differences and Disputes. The Patrons of Traduction accuse their Adversaries of affronting the Attributes of God; and the Affertors of Immediate Creation impeach them of violence to the nature of things: And while each of the Opinions strongly opposeth the other, and sceply desends it self; some take occasion thence to say, That both are right in their Oppositions, but both mistaken in their Assertions. I shall not stir in the Waters that have been troubled with so much contention: The Famous St. Aultin, and others of the celebrated Antients, have been content to sit down here in a profest Neutrality, and I will not endeavour to urge Confessions in things that will be acknowledged; but shall note some Difficulties, that are not so usually observed, which perhaps have more darkness in them, than these so much controverted Doctrines.

I. I begin with the Union of the Soul and Body: In the Unions that we understand, there is still, either some Juitablenels and likeness of Nature in the things united, or some middle, participating Being by which they are joyn'd; but in this there is neither. The natures of Soul and Body, are at the most extream distance; and their essential Attributes most opposite: To be impenetrable, discerpible and unattive, is the nature of all Body and Matter, as fuch: 'And the properties of a Spirit are the direct contrary, to be penetrable, indiscerpible, and felf-motive : Yea, so different they are in all things, that they feem to have nothing but Being, and the Transcendental Attributes of that, in common: Nor is there any appearance. of likenes between them: For what hath Rarefaction, Condensation, Division, and the other properties and modes of Matter, to do with Apprehension, Judgment, and Discourse, which are the proper acts of a Spiritual Being? We cannot mil? then then perceive any congruity, by which they are united: Nor can there be any middle fort of Nature that partakes of each, (as 'tis in fome Unions) their Attributes being such extreams: or, if there is any such Being, or any such possible, we know nothing of it, and 'tis utterly unconceivable. So that, what the Cement should be that unites Heaven and Earth, Light and Darkness, viz. Natures of so diverse a make, and such disagreeing Attributes, is beyond the reach of any of our Faculties: We can as easily conceive how a thought should be united to a Statue, or a Sun-beam to a piece of Clay: how words should be frozen in the Air, (as some say they are in the remote North) or how Light should be kept in a Box; as we can apprehend the manner of this strange Union.

2. And we can give no better account how the Soul moves the Body. For whether we conceive it under the notion of a Pure Mind, and Knowledg, with Sir K. Digby; or of a Thinking Substance, with Des Cartes; or of a penetrable, indiscerpible, self-motive Being, with the Platonists; It will in all these ways be unconceivable how it gives motion to unactive matter: For how that should move a Body, whose nature it is to pass through all Bodies without the least jog or obstruction, would require something more than we know, to help us to conceive. Nor will it avail to say, that it moves the Body by its vehicle of corporeal Spirits; for still the difficulty will be

the same, viz. How it moves them?

3. We know as little, How the Soul so regularly directs the Animal Spirits, and Instruments of Motion which are in the Body; as to stir any we have a will to move: For the passages through which the Spirits are conveyed, being so numerous, and there being so many others that cross and branch from each of them, 'tis wonderful they should not lose their way in such a Wilderness: and I think the wit of Man cannot yet tell how they are directed. That they are conducted by some knowing Guide, is evident from the steadiness and regularity of their motion: But what that should be, and how it doth it, we are yet to seek: That all the motions within us are not directed by the meer mechanick frame of our Bodies, is clear from experience, by which we are affured, that those we call Spontaneous ones, are under the Government of the Will: at least

and

the determination of the Spirits into such or such passages, is from the Soul, whatever we hold of the conveyances after: and thefe, I think, all the Philosophy in the World cannot make out to be purely mechanical. But though this be gain'd, that the Soul is the principle of Direction, yet the difficulty is no less than it was before: For unless we allow it a kind of inward fight of every Vein, Muscle, Artery, and other Pasfage of its own Body; of the exact fite and position of them, with their feveral Windings, and fecret Chanels, it will fill be as unconceivable, how it should direct such intricate Motions, as that one that was born blind should manage a Game at Chefs, or marshal an Army: And if the Soul have any fuch knowledg, we are not aware of it; nor do our minds attend it: Yea, we are so far from this, That many times we observe not any method in the outward performance, even in the greatest variety of interchangable motions, in which a steady Direction is difficult, and a Miscarriage easie: As we fee an Artist will play on an Instrument of Musick without minding it; and the Tongue will nimbly run divisions in a Tune without milling, when the Thoughts are engaged elsewhere: which effects are to be ascribed to some secret Art of the Soul (if that direct) to which we are altogether strangers.

4. But besides the Difficulties that lie more deep; we are at a loss even in the knowledg of our Senses, that seem the most plain and obvious of our Faculties. Our eyes that fee other things, see not themselves; and the Instruments of Knowledge are unknown. That the Soul is the percipient, which alone hath animadversion and sense, properly so call'd; and that the Body is only the receiver, and conveyer of corporeal Motions, is as certain as Philosophy can make it. Aristotle himself teacheth it in that Maxim, Nos oea n, vos ausei: And Plato affirms. That the Soul hath life and sence; but that the Body in strictness of speaking, hath neither the one nor other: Upon which position all the Philosophy of Des-Cartes stands: And it is so clear, and so acknowledg'd a Truth, among all considering Men, that I need not stay to prove it: But yet, what are the Instruments of sensitive Perception, and particular convers of outward Motions to the feat of Sense, is difficult to find;

and how the pure Mind can receive information from things that are not like it felf, nor the objects they represent, is, I think, not to be explain'd. Whether Sensation be made by corporeal Emissions, and material Images; or by Motions that are convey'd to the common sense, I shall not dispute: the latter having so generally obtain'd among the Philosophers: But, How the Soul by mutation, and motion in matter, a substance of an other kind, should be excited to action; and how these should concern it, that is of so divers a nature, is hardly to be conceiv'd. For Body cannot act on any thing, but by Motion; Motion cannot be receiv'd but by Matter, the Soul is altogether immaterial; and therefore, how shall we apprehend it to be subject to such Impressions? and yet Pain, and the unavoidableness of our Sensations evidently prove, That it

is subject to them.

Besides, How is it, and by what Art doth the Soul read! That such an Image, or Motion in matter, (whether that of her Vehicle, or of the Brain, the case is the same) signifies such an Object? If there be any such Art, we conceive it not? and 'tis strange we should have a Knowledg that we do not know. That by divertity of Motions we should spell out Figures, Distances, Magnitudes, Colours; things not resembled by them, we must ascribe to some implicit inference, and deduction; but what it (hould be; and by what Mediums that Knowledg is advanced, is altogether unintelligible. For though the Soul may perceive Motions and Images by simple. fense, yet it seems unconceivable it should apprehend what they fignifie; and represent, but by some secret Art and way of inference: An illiterate Person may see the Letters, as well as the most Learned, but he knows not what they mean; and an Infant hears the founds, and fees the motion of the Lips, but hath no conception convey'd to him, for want of knowing the fignification of them: fuch would be our case, notwithstanding all the motions and impressions made by external things, if the Soul had not some unknown way of learning by them the quality of the Objects. For instance, Images and Motions have but very small room in the Brain, where they are received, and yet they represent the greatest Magnitude tudes; The Image, Figure, (or what-ever else it may be call'd)

call'd) of an Hemisphere of the Heavens, cannot have a Subject larger than the pulp of a Walnut; and how can such petty Impressions, make known a Body of so vasta wideness, without some kind of Mathematicks in the Soul: And except this be supposed, I cannot apprehend how Distances should be perceived; but all Objects would appear in a cluster. Nor will the Philosophy of Des-Cartes help us here; For the moving divers Filaments in the Brain, cannot make us perceive such modes as Distances are, unless some such Art and Inference be allowed, of which we understand nothing.

5. The Memory is a Faculty in us as obscure, and perhaps as unaccountable as any thing in Nature. It seems to be an Organical Power, because Diseases do often blot out its Ideas, and cause Oblivion: But what the marks and impressions are by which the Soul remembers, is a question that hath not yet been very well resolv'd. There are sour principal Hypotheses by which an account hath been attempted; The Peripate-

tick, the Cartefian, the Digbean, and the Hobbian.

1. According to the Peripatetick Schools, Objects are conferv'd in the memory by certain Intentional Species (as they call them) a fort of Beings, that have a necessary dependance upon their Subjects; but are not material in their formal Constitution and Nature. I need not fay much against these arbitrary precarjous Creatures, that have no foundation in any of our Faculties: Or be that how it will, They are utterly unintelligible; neither bodily, nor Biritual; neither produc'd out of any thing, as the matter of their production; nor out of nothing, which were Creation, and not to be allow'd to be in the power of every, or any finite Being. And though there were no fuch contradictious contrivance in the framing these Species, yet they could not serve any purpose, as to the Memory, since 'tis against the nature of emanative Effects, such as these are, to subsist but by the continual influence of their Causes; and so, if this were the true Solution, we could remember nothing longer than the Object was in presence.

2. The account of Des-Cartes is to this purpose; The Spirits are sent about the Brain, to find the tracks of the Objects we would call to mind; which Tracks consist in this, viz, That the Pores through which the Spirits that came from

the Objects past, are more easily open'd, and afford a more ready passage to those others that seek to enter; whence ariseth a special motion in the Glandule, which signifies this to be that we would remember.

But if our Remembrance arise from the easie motion of the Spirits through the opened passages (according to this Hypothesis); How then do we so distinctly remember such a variety of Objects, whose Images pass the same way? And how the Distances of Bodies that lie in a Line? Why should not the impell'd Spirits find other open passages, besides those made by the thing we would remember? When there are fuch continual motions through the Brain from numerous other Objects? Yea, in such a pervious substance as that is, why should not those subtile Bodies meet, every where an easie passage? It seems to me that one might conceive as well, how every Grain of Corn in a Sieve should be often shaken through the same holes, as how the Spirits in the repeated acts of Memory should still go through the same Pores: Nor can I well apprehend but that those supposed open'd passages, would in a short time be stopt up, either by the natural gravity of the parts, or the making new ones near those; or other alterations in the Brain.

3. The Hypothesis of Sir Kenelm Digby, is next, viz. That things are preserv'd in the Memory by material Images that slow from them, which having imping'd on the common sense, rebound thence into some vacant Cells of the Brain, where they keep their ranks, and postures, as they entred, till again they are stirr'd, and then they appear to the Fancy as they

were first presented.

But how is it conceiveable, That those active Particles which have nothing to unite them, or to keep them in any order, yea which are continually justled by the occursion of other minute Bodies, (of which there must needs be great store in this Repository) should so long remain in the same state and posture? And how is it that when we turn over those Idæa's that are in our memory, to look for any thing we would call to mind, we do not put all the Images into a disorderly sloating, and so make a Chaos of consussion there, where the exactest Order is required: And indeed according

to this account, I cannot see but that our Memories would be more confused than our Dreams: and I can as easily conceive how an heap of Ants can be kept to regular and uniform Motions.

4. Mr. Hobbs attempts another way; there is nothing in us, according to this Philosopher, but Matter and Motion: All Sense is Reaction in Matter [Leviath. Chap. 1.] the decay of that Motion, and Reaction, is Imagination; [Chap. 2.] And Memory is the same thing, expressing that decay. [Ib.] So that according to M. H. all our Perceptions are Motions, and fois Memory: Concerning which, I observe but two things;

1. Neither the Brain, nor Spirits, nor any other material Substance within the Head, can for any considerable time conferve Motion. The Brain is fuch a clammy Confisence, that it can no more retain it than a Quagmire; The Spirits are more liquid than the Air, which receives every Motion, and loseth it as soon: And if there were any other corporeal part in us, as fitly temper'd to keep Motion as could be wisht; yet (2.) the Motions made in it would be quickly deadned by Counter-Motions; and so we should never remember any thing, longer than till the next Impression: and it is utterly impossible that fo many Motions should orderly succeed one another, as things do in our Memories; For they must needs, ever and anon, thwart, interfere, and obstruct one another, and so there would be nothing in our Memories, but Confusion and Discord.

Upon the whole we fee, that this feemingly plain Faculty, the Memory, is a Riddle also which we have not yet found the

way to resolve.

I might now add many other difficulties, concerning the Understanding, Fancy, Will, and Affections: But the Controversies that concern these, are so hotly managed by the divided Sohools, and so voluminously handled by disputing Men, that I shall not need insist on them: The only Difficulties about the Will, its nature and manner of following the Understanding, &c. have confounded those that have enquired into it; and shewn us little else, but that our Minds are as blind, as that Faculty is said to be by most Philosophers. These Controversies, like some Rivers, the further they run, the more

more they are hid: And perhaps after all our Speculations and Disputes, we conceive less of them now, than did the more plain, and fimple Understandings of former times. But whether we comprehend or not, is not my present business to enquire, fince I have confined my felf to an Account of some great Mysteries, that do not make such a noise in the World: And having spoken of some that relate to our Souls; I come now to some others that concern

H. BODIES: I begin with our Own; which though we fee, and feel, and have them nearest to us, yet their inward Constitution and Frame, is hitherto an undiscovered Region: And the faying of the Kingly Prophet, that we are wonderfully made, may well be understood of that admiration, that is

the Daughter of Ignorance.

For, I. There hath no good account been yet given, how our Bodies are formed: That there is Art in the contrivance of them, cannot be denied, even by those that are least beholden to Nature: and so elegant is their composure, that this very Confideration faved Galen from being an Atheist: And I cannot think that the branded Epicurus, Lucretius and their Fellows were in earnest, when they resolv'd this Composition into a fortuitous range of Atoms: 'Twere much less absurd to suppose, or say, that a Watch, or other curious Automaton, did perform divers exact and regular Motions, by chance; than tis to affirm, or think, that this admirable Engine, an Humane Body, which hath so many Parts, and Motions, that orderly cooperate for the good of the whole, was framed without the Art of some knowing Agent: But who the skilful, particular Archeus should be; and by what Instruments, and Art this Fabrick is erected, is still unknown. That God hath made us. and fashion'd our Bodies in the nethermost parts of the Earth, is undoubted; But he is the first and universal Cause, who transacts things in Nature by secondary Agents, and not by his own immediate hand: (The supposal of this would destroy. all Philosophy, and enquiry after Causes) So that He is still supposed; but the Query is of the next, and particular Agent, that forms the Body in so exquisite a manner; a Question that hath not yet been answered. Indeed by some 'tis thought enough to fay, That it is done by the Plastick Faculty; and by others

others 'tis believ'd that the Soul is that that forms it. For the Plastick Faculty, 'tis a big word, but it conveys nothing to the Mind: For it fignifies but this, that the Body is formed by a formative Power; that is, 'tis done, by a power of doing it. But the doubt remains fill, what the Agent is that hath this power? The other Opinion of the Platonists, hath two Branches: some will have it to be the particular Soul, that fashions its own Body; others suppose it to be the general Soul of the World: If the former be true, By what knowledg doth it do it? and how? The means, and manner are still occult, though that were granted. And for the other way, by a general Soul; That is an obscure Principle, of which we can know but little; and how that acts (if we allow fuch a being) whether by knowledg, or without, the Affertors of it may find difficulty to determine. The former makes it little less than God himfelf; and the latter brings us back to Chance, or a Plastick Faculty. There remains now but one account more, and that is the Mechanical; viz. That it is done by meer Matter moved after such, or such a manner. Be that so: It will yet be said, that Matter cannot move it felf; the question is still of the Mover; The Motions are orderly, and regular; Query, Who guides ?- Blind Matter may produce an elegant effect for once, by a great Chance; as the Painter accidentally gave the Grace to his Picture, by throwing his Pencil in rage, and diforder upon it; But then constant Uniformities, and Determinations to a kind, can be no Results of unguided Motions. There is indeed a Mechanical Hypothesis to this purpose; That the Bodies of Animals and Vegitables are formed out of such particles of Matter, as by reason of their Figures will not lie together, but in the order that is necessary to make such a Body; and in that they naturally concur, and rest; which seems to be confirm'd by the artificial Resurrection of Plants, of which Chymists speak, and by the regular Figures of Salts, and Minerals; the bexagonal of Chrystal, the Hemi-spherical of the Fairy-Stone; and divers fuch like. And there is an experiment mentioned by approved Authors, that looks the same way; It is, That after a decoction of Herbs in a frosty Night, the shape of the Plants will appear under the Ice in the Morning: which Images are supposed to be made by the congregated Effluvia of the Plants Plants themselves, which loofly wandring up and down in the Water, at last settle in their natural place and order, and so make up an appearance of the Herbs from whence they were emitted. This account I confess hath something ingenious in it; But it is no solution of the Doubt. For how those beterogenous Atoms should hit into their proper places, in the midst of such various and tumultuary Motions, will still remain a question: Let the apiness of their Figures be granted, we shall be yet to seek for something to guide their Motions: And let their natural Motion be what it will, gravity or levity, direct or oblique, we cannot conceive how that should carry them into every particular place where they are to lie; especially considering they must needs be sometimes diverted from their course by the occursion of many other Particles. And as for the Regular Figures of many inaminate Bodies, that con-

fideration doth but multiply the doubt.

2. The union of the parts of Matter, is a thing as difficult as any of the former: There is no account that I know, hath vet appear'd worth confidering, but that of Des-Gartes; viz. That they are united by juxta-position, and rest. And if this be all, Why should not a bag of Dust be of as firm a Consistence, as Marble or Adamant? Why may not a Bar of Iron be as easily broken as a pipe of Glass; and the Ægyptians Pyramids blown away, as foon as those inverst ones of smoke. The only reason of difference pretended by some, is, that the Parts of folid Bodies are held together by natural Hooks; and strong ones, by such Hooks as are more rough and firm: But how do the parts of these Hooks stick together? Either we must suppose infinite of them holding each other; or come at last to parts united by meer juxta-position, and rest. The former is very abfurd, for it will be necessary, That there should be same, upon which the Cohesion of all the rest should depend; otherwise, all will be an heap of Dust. But in favour of the Hypothesis of Des-Cartes, it may be said, That the closeness and compatiness of the parts resting together, makes the strength of the Union: For, (as that Philosopher faith) Every thing continues in the state wherein it is, except something more powerful alter it; and therefore the Parts that rest close together will so continue, till they are parted by some other stron-

fide,

ger Body: Now the more parts are pent together, the more able they will be for resistance; and what hath best compatiness, and freest by consequence femer parts, will not be able to make any alteration in a Body that hath more. According to this Doarine, what is most dense, and least porous, will be most coherent, and least discerpible; which yet is contrary to experience. For we find the most porous, spongy Bodies, to be ofttimes the most tough of Consistence. We easily break a Tube of Glass or Chrystal; when one of Elm, or Ash, will hardly be torn in pieces: and yet as the parts of the former are more, so are they more at rest; fince the liquid Juice diffused through the Wood is in continual agitation, which in Des-Cartes his Philosophy is the cause of fluidity; so that according to his Principles, the dryest Bodies should be the most firm; when on the contrary, we find that a proportionate humidity contributes much to the strength of the Union. (Sir K. Dieby makes it the Cement it felf) and the driness of many Bodies is the cause of their fragility, as we see 'tis in Wood, and Glass. and divers other Things.

3. We are as much at a loss about the composition of Bodies. whether it be out of Indivisibles, or out of parts always divifible: For though this question hath been attempted by the subtilest Wits of all Philosophick Ages; yet after all their distinctions, and shifts, their new-invented words, and modes, their niceties and tricks of subtilty, the Matter stands yet unresolv'd. For do what they can, Adual, Infinite extension every where; Equality of all Bodies, Impossibility of Motion, and a world more of the most palpable Absurdities, will press the Assertors of Infinite Divisibility: Nor on the other fide, can it be avoided, but that all Motions would be equal in velocity: That the Lines drawn from fide to fide in a Pyramid, would have more Parts than the Basis: That all Bodies would be swallowed up in a Point; and many other Inconsistencies will follow the Opinion of Indivisibles. But because I have confined my felf to the Difficulties that are not so usually noted; I shall not insist on these, but refer the Reader, that hath the humour, and leifure, to inquire into fuch Speculations, to Oviedo, Pontius, Ariaga, Carelton, and other Jesuites, whose management of this Controversie, with equal force on either

fide, is a confiderable Argument of the unaccountableness of this Theory, and of the weakness of our present Under-

standings.

I might now take into consideration the Mysteries of Motion, Gravity, Light, Colours, Vision, Sounds, and infinite such like, (things obvious, yet unknown) but I insist no further on Instances, but descend to the second thing I propounded to treat of, viz.

II. The CAUSES of our Ignorance, and Mistakes; And in them we shall find further evidence of the impersection of our Knowledg. The Causes to be considered, are either,

1. The Difficulties and Depth of Science: Or, 2. The prefent temper of our Faculties. Science is the Knowledg of things in their Causes; and so 'tis defined by the Pretenders to it. Let us now enquire a little into the difficulties of attain-

ing fuch Knowledg.

1. We know no Causes by Simple Intuition, but by Consequence and Deduction; and there is nothing we so usually infer from, as Concomitancy; for instance, We always feel heat when we come near the Fire, and still perceive Light when we see the Sun; and thence we conclude, that these are the Causes respectively of Heat, and Light; and so in other things. But now in this way of inference there lies great uncertainty: For if we had never seen more Sun, or Stars, than we do in cloudy weather, and if the Day had always broke with a Wind, which had increast and abated with the Light; we should have believed firmly that one of them had been the cause of the others and so Smoke had been undoubtedly thought the efficient of the Heat, if nothing else had appeared with it. But the Philosophy of Des-Cartes furnisheth us with a better Instance; All the World takes the Sun to be the Cause of Day, from this Principle of Concomitance: But that Philosopher teacheth, That Light is caused by the Conamen, or endeavour of the Matter of the Vortex to recede from the Centre of its Motion; so that were there none of that fluid Æther in the midst of our World, that makes up the Sun, yet the pressure of the Globuli (as he calls those Particles) upon our Eyes, would not be confiderably less: and so according to this Hypothesis, there would be Light though there were no Sun, or Stars ;

Stars; and Evening, and Morning might naturally be before, and without the Sun. Now I say not that this Opinion is true and certain; but 'tis possible, and I know no absurdity in it; and consequently, our concluding a Causality from Conco-

mitancy, here, and in other Instances may deceive us.

2. Our best natural Knowledg is imperfect, in that, after all our confidence, Things still are possible to be otherwise: Our Demonstrations are raised upon Principles of our own, not of Universal Nature; And, as my Lord Bacon notes, we judg from the analogy of our selves, not the Universe: Now many things are certain, according to the Principles of one Man, that are absurd in the apprehensions of many others: and some appear impossible to the vulgar, that are easie to Men of more improved Understandings. That is extravagant in one Philosophy, which is a plain truth in another: and perhaps what is most impossible in the apprehensions of Men; may be otherwise in the Metaphysicks, and Physiology of Angels. The fum is. We conclude this to be certain, and that to be impossible from our own narrow Principles, and little Scheams of Opinion. And the best Principles of natural Knowledg in the World, are but Hypotheses, which may be, and may be otherwise: So that though we may conclude many things upon fuch and fuch Suppositions, yet still our Knowledg will be but fair, and hopeful Conjecture: And therefore we may affirm that things are this way, or that, according to the Philosophy that we have espoused; but we strangely forget our selves when we plead a necessity of their being so in Nature, and an impossibility of their being otherwise. The ways of God in Nature (as in Providence) are not as ours are : Nor are the Models that we frame any way commensurate to the vastness and profundity of his Works; which have a depth in them. greater than the Well of Democritus.

3. We cannot properly and perfectly know any thing in Nature without the knowledg of its first Causes, and the Springs of Natural Motions: And who hath any pretence to this? Who can say he hath seen Nature in its beginnings? We know nothing but Effects, nor can we judg at their immediate Causes, but by proportion to the things that do appear; which no doubt are very unlike the Rudiments of Nature 1.

ture,

We fee there is no resemblance between the Seed, and the Herb, and the Flowre; between the Sperm, and the Animal; The Egg, and the Bird that is hatcht of it; And fince there is so much dissimilitude between Cause and Effect in these apparent things, we cannot think there is less between them and their first, and invisible Efficients: Now had not our Senses affured us of it, we should never have suspected that Plants, or Animals did proceed from such unlikely Originals; never have imagined, that such Effects should have come from such Causes, and we can conceive as little now of the nature and quality of the Causes that are beyond the prospect of our Senses: We may frame Fancies and Conjectures of them, but to say that the Principles of Nature are just as our Philosophy makes them, is to let bounds to Omnipotence, and to circumscribe infinite Power, and Wisdom, by our narrow Thoughts and Opinions.

4. Every thing in Nature hath relation to divers others; so that no one Being can be perfectly known without the knowledg of many more: Yea, every thing almost hath relation to all things; and therefore he that talks of strift Science, pretends to a kind of Omniscience. All things are linkt together; and every Motion depends upon many prerequired Motors; so that no one can be perfectly known singly. We cannot (for instance) comprehend the cause of any Motion in a Watch, unless we are acquainted with other dependent Motions; and have insight into the whole mechanical contexture of it; and we know not the most contemptible Plant that grows in any perfection, and exactness, until we understand those other things that have relation to it; that is, almost every thing in Nature. So that each Science borrows from all the rest, and we attain not any single one, without com-

prehending the whole Circle of Knowledg.

I might say much more on this Subject, but I may have further occasion of speaking to it, under the second General,

viz. The Confideration

the malign Influence our Senses and Affections have upon our Minds. I begin with the SENSES; and shall take nonotice.

tice, 1. Of their Dulness; and 2. of their liableness to Er-

rour and Miltake.

1. Our Senses are very scant and limited; and the Operations of Nature subtil, and various. They are only its groffer Instruments, and ways of working that are fenfible; the finer Threads, and immediate Actions are out of reach; Yea, it's greatest

works are perform'd by invisible, insensible Agents.

Now most of our Conceptions are taken from the Senses, and we can scarce judg of any thing but by the help of material Images, that are thence convey'd to us. The Senfer are the Fountain of natural Knowledg; and the surest and best Philosophy is to be raised from the Phanomena, as they present them to us: when we leave these, and retire to the abstracted notions of our minds, we build Castles in the Air, and form Chymerical Worlds, that have nothing real in them. And yet when we take our accounts from those best Informers, we can learn but very little from their Discoveries. For we see but the shadows, and outsides of things; like the men in Plato's Den, who saw but the Images of external Objects, and but so many as came in through the narrow entrance of their Cave. The World of God, no doubt, is an other thing, than the World of Sense is; and we can judg but little of its amplitude and glory by the imperfect Idea we have of it. From this narrowness of our Senses it is. that we have been so long ignorant of a World of Animals that are with us, and about us, which now at last the Glasses, that in part cure this imperfection, have discover'd; and no doubt, there is yet a great variety of living Creatures that our best Instruments are too groß to disclose: There is Prodigious fineness. and subtilty in the works of Nature, which are too thin for our Senses, with all the advantages Art can lend them: And many, the greatest, and the best of its Objects are so remote that our Senses reach them not by any Natural or Artificial helps: So that we cannot have other than short and confused apprehensions of those works of Nature: And I sometimes fear, that we scarce yet see any thing as it is. But this belongs to an other confideration, viz.

2. Our Senses extremely deceive us in their reports, and informations; I mean, they give occasion to our minds to deceive themselves. They indeed represent things truely as they appear

to them, and in that there is no deception; but then, we judge the exterior Realities to be according to those appearances, and here is the Error and Miltake. But because the Senses afford the ground and occasion, and we naturally judg according to their impressions, therefore the Fallacies and Deceits are imputed to their misinformations. This I premise, to prevent a Philosophical mistake, but shall retain the common way of speaking, and call those the errors of the Senses. That these very frequently misreport things to us, we are assured even from themfelves: a straight stick feems crooked in the Water, and a square Towre round at a distance; All things are Yellow to those that have the Faundice, and all Meats are bitter to the disaffected Palate: To which vulgar Instances it will presently be anfwer'd, that the Senses in those cases, are not in their just circumstances; but want the fit medium, due distance, and sound disposition: which we know very well, and learn there was fomewhat amis; because our Senses represent those things otherwise at othertimes: we see the stick is straight when it is out of the Water; and the Tower is square when we are near it. Objects have other Colours, and Meats other tastes, when the Body, and its Senses are in their usual temper. In such cases, Sense rectifies its own mistakes, and many times one the errors of another; but if it did not do so, we should have been alwayes deceived even in those Instances: and there is no doubt. but that there are many other like deceptions, in which we have no contrary evidence from them to disabuse us; not in the matters of common Life, but in things of remoter speculation, which this state seems not to be made for. The Senses must have their due medium, and distance, and temper; if any of these are amiss, they represent their Objects otherwise to us than they are: Now these, we may suppose they generally have, in the necessary matters of Life, if not to report things to us as they are in themselves, yet to give them us so, as may be for our accommodation, and advantage: But how are we affur'd, that they are thus rightly disposed, in reference to things, of Speculative Knowledg? What medium, what distance, what temper is necessary to convey Objects to us just so, as they are in the realities of Nature? I observ'd before that our Senses are short, imperfect, and uncommensurate to the vastness and proprofundity of things, and therefore cannot receive the just I-mages of them: and yet we judg all things according to those confused, and imperfest Ideas, which must needs lead us into

infinite errors, and mistakes.

If I would play the Sceptick here, I might add, That no one can be fure that any Objects appear in the same manner to the Senses of other men, as they do to his: Yea, it may feem probable, that they do not? For though the Images, Motions, (or whatever else is the cause of Sence) may be alike as from them; vet the representations may be much varied according to the nature and quality of the recipient: we find things look otherwife to us through an Optick Tube, then they do when we view them at a distance with our naked eyes: the same Object appears red, when we look at it through a Glass of that Colour, but green when we behold it through one of such a Tincture. Things feem otherwise when the Eye is distorted, then they do, when it is in its natural, ordinary, posture; and some extraordinary alterations in the Brain double that tous, which is but a single Object: Colours are different, according to different Lights, and Politions; as 'tis in the necks of Doves, and folds of Scarlet: Thus difference in circumstances alters the fensations and why may we not suppose as much diversity in the Senses of several men, as there is in those accidents, in the perceptions of one? There is difference in the Organs of Sense, and more in the temper and configuration of the inward parts of the Brain, by which motions are convey'd to the feat of Senfesin the Nerves, Humours and Spirits, in respect of tenuity, liquidity, aptitude for motion, and divers other circumstances of their nature; from which it seems that great diversity doth arise in the manner of receiving the Images, and consequently in the perceptions of their Objects. So then, though every man knows, how things appear to himself, yet what impressions they make upon the so different Senses of another, he only knows certainly, that is conscious to them And though all men agree to call the impression they feel from such, or such an Object, by the same name; yet no one can affuredly tell but that the Sentiment may be different; It may be one man hath the impression of Green from that, which in another begets the Sense of Tellow; and yet they both call it Green, because from their infancy they D 2 were were wont to join that word to that Sentiment, which fuch an Object produc'd in their particular Sense; though in several men it were a very divers one. This I know some will think hard to be understood; but I cannot help that: Those that Consider will find it to be very plain; and therefore I shall spend no more words about it.

The Sum is, Our Senses are good Judges of Appearances, as they concern us: but how things are in themselves, and how they are to others, it should seem, we cannot certainly learn from them: And therefore when we determine that they are, and must be according to the representations of our individual Senses, we are very often grossy deceiv'd in such sentences; to which yet we are exceeding prone; and sew but the most exercised minds, can avoid them. Of this I'le give a great Instance or two.

that the Earth rests on the Centre of the World; and those ancient Philosophers have been extreamly hooted at, and derided, that have taught the contrary doctrine: For my part, I shall affirm nothing of the main question; but this I say, That the common inducement to believe it stands still, viz. the Testimony of Sense, is no argument of it: And whether the opinion of Pythagoras, Copernicus, Des-Cartes, Galilæo, and almost all late Philosophers, of the motion of the Earth, be true, or false; the belief of its Rest, as sar as it ariseth from the presum'd evidence of

Sence, is an error.

That there is some common motion that makes the day, and night and the varieties of seasons, is very plain and sensible; but whether the Earth, or the Sun be the Body mov'd, none of our Senses can determine; To Sense the Sun stands still also, and no Eye can perceive its Astual motion. For though we find, that in a little time it hath chang'd its Position, and respect to us; yet whether that change be caus'd by its translation from us, or ours from it, the Sense can never tell: and yet from this, and this only, the greatest part of mankind believes its motion. On the other side, The standing still of the Earth is concluded the same way; and yet, though it did move, it would appear fixt to us as now it doth, since we are carried with it, in a regular and most even course, in which case motion is not perceiv'd; as

we find fometimes in failing in a Ship, when the Shares feem to move, and not that; - Littus, Campig; recedunt.

But I give another Instance of a like deception; It is, 2. The translation of our own passions to things without us: 33 we judg Light and Heat, and Cold, to be formally in the Sun, Fire, and Air; when as indeed they are but our own perceptions. As they are in those external Subjects, they are nothing, but such or such configurations and motions in matter; but when they mark on us, they produce different sentiments, which we call Heat, and Light, &c. This will appear to be true to any one that can freely and attentively confider it; and yet it will be thought fo strange and absurd by the generality of men, that they will as-Soon believe with Anaxagoras, that Snow is black, as him that affirms, that the Fire is not formally hot; that is, that the very thing we feel, and call Heat in our selves, is not fo in that body: when as there, it is but a violent agitation of the subtile, and divided parts of matter, that in it felf is nothing like what we perceive from it, and call Heat: That we are bot our felves. we feel; but that the Fire hath any such formal quality as is in our Sense, no Sense can inform us; and yet from its supposed evidence men generally fo conclude. Which is an other confiderable Instance of the false judgments we make on the occasion of our Senses.

And now, It is not only common understandings that are abused, and deceiv'd by their Senses; but even the most advanc'd Reasons are many times misled by them: And since we live the Life of Beast's before we grow up to Men, and our minds are Passive to the impressions of Sense, it cannot be, that our first knowledg should be other, than heaps of Errour, and misconception; which might be rectified by our after-judgments, but that 'tisanother unhappiness of our natures, that those early impressions stick by us, and we are exceedingly apt pertinaciously to adhere to them: And though our improving understandings do in part undeceive us, and destroy some groffer errours; yet others are so fattned, that they are never after remov'd, or diffetled. So that we are not quite weaned from our Child-bood till we return to our second Infancy; and even our Grey-Heads out-grow not those errors, which we learnt before the Alphabet. And therefore since we contracted so many

many prejudices in our tender years, and those Errors have as plausible an appearance, as the most genuine truths, the best way to attain true Knowledg is to suspend the giving our confirm'd affent to those Receptions, till we have looked them over by an impartial inquiry; To reckon of them all as false, or uncertain, till we have examin'd them by a free, and unposes the Reason; and to admit nothing but what we clearly, and distinctly perceive. This is the great Rule, in the excellent Method of Des-Cartes; but the practise of it requires such a clear, sedate and intent mind, as is to be found but in a very few rare tempers; and even in them, prejudices will creep in,

and spoil the perfection of their Knowledg.

I might discourse next of those Errors that do arise from the fallacies of our Imaginations, whose unwarrantable compositions and applications, do very frequently abuse us: and indeed, the Reason of the greatest part of mankind is nothing else but various Imagination; Yea, 'tis a hard matter for the best and freest minds to deliver themselves from the Prejudices, of Phancy; which, besides the numerous lesser Errors they berray us into are great occasions (particularly) of those many mistakes we are guilty of in speculating Immaterial Natures, & inquiring into the Attributes of God; and we are much entangled, and puzled by them, in all things we think, or fay about Infinity, Eternity and Immensity, and most other of the sublime Theories both of Philosophy, or Theology. But these all arise, either from the false Images of Sense, and the undue compositions, and wrong inferences that we raise from them; and therefore I shall not need make this a distinct head from the other of which I have just treated.

I come now, II. To confider the evil Influence our Affetions have over our Understandings, by which they are great Reasons of our Ignorance, and Mistakes. Peritifudicium ubi res transiit in affectum. That Jupiter himself cannot be Wise, and in Love, was a saying of the Ancients, and may be understood in a larger Seuse then They meant. That understanding only is capable of passing a just Sentence, that is, as Aristotle saith of the Law, Ness were defeates; but where the Will and Passions have the casting voice, the cause of Truth is desertions

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perate. Now this is the present unhappy state of Man; our lower powers are gotten uppermost, and we see like Men on their Heads, as Plato observ'd of old, That on the right hand, which indeed is on the left. The Woman in us still prosecutes a deceipt like that begun in the Garden; and we are wedded to an Eve. as fatal as the Mother of ous Miseries. The Deceiver foon found this fost place in Adam, and Innocency it self did not fecure him from this way of feduction: We now fearce fee any thing but through our passions, that are wholly blind, and incapable: So that the Monsters that story relates to have their Eyes in their Breasts, are pictures of us in our invisible selves.

And now, all things being double-handed, and having appearances both of Truth, and Falshood, the ingaged affection magnifieth the shews of Truth, and makes the belov'd opinion appear as certain; while the considerations on the otherside being lessened and neglected, seem as nothing, though they are never so meighty and considerable. But I shall be more particular

in the account of these Deceptions.

Our Affections ingage us, by our love to our felves, or others; the former in the Inflance of, I. Natural disposition, 2. Custom and Education, and 3. Interest: the latter, in our

over-fond Reverence to 4. Antiquity and Authority.

1. There is a certain congruity of some opinions to the particular tempers of some men: For there is a complexion, and temperament in the mind as well as in the body: And the doctrines that are fuited to the genius, and special disposition of the understanding, find easy welcom, and entertainment: whereas, those that are opposite to it, are rejected with an invincible contempt and hatred. On this account we find men taking in some particular Opinions with strange pleasure and satisfaction, upon their first proposals; when they are incurably barred up against others, that have the advantage of more reason to recommend them. And I have observ'd often. that even some Theories in Philosophy will not lie in fome minds, that are otherwise very capable and ingenious: of which I take this to be a confiderable Instance, That divers learned men profess, They cannot conceive a Spirit (or any being) without extension; whereas others say, They cannot conceive, but that whatever is extended is impenetrable, and and consequently corporeal; which diversity I think, I have reason to ascribe to some difference in the natural temper of the mind.

- 2. But another very fatal occasion of our mistakes, is the great prejudice of Custom and Education: which is so unhappily prevalent, that though the Soul were never fo truly άγραφον γραμματείον (as the Philosopher call'd it) an unwritten table in it self; yet this doth very often so scribble on it, as to render it incapable of other impressions: we judg all things by those Anticipations; and condemn, or applaud them, as they differ, or agree, with our first Opinions. 'Tis on this account that almost every Country censures the Laws, Customs, and Doctrines of every other, as absurd, and unreasonable, and are confirm'd in their own follies beyond possibility of conviction. Our first Age is like the melted wax to the prepared Seal, that receives any impression; and we suck in the opinions of our Clime and Country, as we do the common Air. without thought, or choice; and which is worfe, we usually sit down under those Prejudices of Education and Custom all our Lives after: For either we are loth to trouble our felves to examine the Doctrines we have long taken for granted, or we are scar'd from inquiring into the things that Custom and common Belief have made Venerable and Sacred. We are taught to think, with the Hermit, that the Sun shines no were but in our Cells, and that Truth and Certainty are confin'd within that Belief, in which we were first instructed. From whence we contract an obstinate adherence to the conceits in which we were bred, and a resolv'd contempt of all other Doctrines: So that what Altrologers say of our Fortunes, and the events of common life, may as well be faid of the opinions of the most, that they are written in their Stars, having as little freedom in them as the effects of Destiny. And since the Infusions of Education have such interest in us, are so often appeal'd to as the dictates of Truth, and impartial Reason; 'tis no wonder we are so frequently deceiv'd, and are so imperfect in our Knowledg. Another cause of which is,
- 3. The power that Interest hath over our Affections, and by them over our fudgments. When men are ingag'd by this, they can find Truth any where; and what is thought conve-

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nient to be true, will at last be believed to be so. Facile credimus quod volumus. So that I do not think, that the learned Affertors of vain, and false Religions, and Opinions, do always profess against their Consciences; rather their Interest brings their Consciences to their Profession; for this doth not only corrupt Mens Practife, but very often pervert their Minds also, and insensibly mislead them into Errours.

4. But our Affections misguide us by the respect we have to others, as well as by that we bear to our felves: I mentioned The Instances of Antiquity, and Authority. We look with a Superstitious Reverence upon the accounts of past Ages, and with a supercilious Severity on the more deserving products of our own: a vanity that hath possess all times as well as ours; and the golden Age was never present. For as an inconsiderableWeight by vertue of it's distance from the Centre of the Ballance will out-weigh much heavier bodies that are nearer to it; so the most light, and vain things that are far off from the prefent Age, have more Esteem, and Veneration then the most confiderable, and substantial that bear a modern date: and we account that nothing worth, that is not fetcht from a far off; in which we very often deceive our selves as that Mariner did, that brought home his Ship Fraught with common Pebbles from the Indies. We adhere to the Determinations of our Fathers as if their Opinions were entail'd on us; and our Conceptions were ex Traduce.

And thus while every Age is but an other them of the former, 'tis no wonder that humane science is no more advanced above it's ancient Stature: For while we look on some admired Authors as the Oracles of all Knowledg, and spend that time, and those pains in the Study and Defence of their Doctrines, which should have been imploy'd in the search of Truth, and Nature; we must needs stint our own Improvements and hinder the Advancement of Science; Since while we are Slaves to the Opinions of those before us. Our Discoveries, like water will not rife higher then their Fountains; and while we think it fuch Presumption to endeavour beyond the Ancients, we fall short of Genuine Antiquity, Truth: unless we suppose them to have reach't perfection of Knowledg in spight of their own acknowledgments of Ignorance. And

And now whereas it is observ'd, that the Mathematicks and Mechanick Arts have confiderably advanced, and got the flart of other Sciences; this may be considered as a chief cause of it. That their Progress hath not been retarded by this reverential awe of former Discoveries: 'Twas never an Herefie to out-limn Apelles, or to out-work the Obelisks: Galilaus without a Crime, out-saw all Antiquity, and was not afraid to believe his Eyes, in reverence to Aristotle and Ptolomy. 'Tis no disparagement to those famous Optick Glasses that the Ancients never us'd them; nor are we shy of their Informations, because they were hid from Ages. We believe the polar vertue of the Loadstone, without a Certificate from the daves of old, and do not confine our selves to the sole conduct of the Stars, for fear of being wifer than our Fathers. Authority prevail'd here, the fourth part of the Earth had been yet unknown, and Hercules Pillars had still been the Worlds Ne ultra: Seneca's Prophesie had been an unfulsil'd Prediction;

and one Moity of our Globes an empty Hemisphere.

Tis true, we owe much reverence to the Ancients, and many thanks to them for their Helps and Discoveries; but implicitly and fervilely to Submit our Judgments to all Opini- there ons, is inconsistent with that respect that we may, and ought to have to the freedom of our our own Minds, and the dignity of Humane Nature. And indeed (as the great Lord Bacon hath observ'd) we have a wrong apprehension of Antiquity, which in the common acception is but the nonage of the World. Antiquitas seculi est juventus Mundi: So that in those Appeals, we fetch our Knowledg from the Cradle, and the comparative infancy of days. Upon a true account, the pre-) sent Age is the greatest Antiquity; and if that must govern and Iway our Judgments, let multitude of days speak. If we would reverence the Ancients as we ought, we should do it by imitating their Example, which was not superly and superstitiously to fit down in fond admiration of the Learning of those that were before them, but to examine their Writings; to avoid their Mistakes, and to use their Discoveries, in order to the further improvement of Knowledg: This they did; especially the Philosopher Aristotle used the most freedom in cenfuring and reproving the supposed Errors and Mistakes of the elder

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elder Philosophers, of any that ever had that Name: And therefore there is the less reason why Men should make his Writing Textuary, and as it were infallible, without daring

to use the liberty that he taught by his practice.

It was from this servile humour of idolizing some fortunate and fam'd Authors, that arose that filly vanity of impertinent Citations, and alledging Authorities in things, that neither require nor deserve them. The Man, no doubt, thought the faying to be Learning, and an Elegancy, That Men have Beards, and that Women have none; when he had guoted Beza for it: and that other aim'd to be accounted no mean Clerk, that could fay, Pax res bona est, saith St. Austin: This folly, as ridiculous as it is, was once very common among those that courted the reputation of being Learned; and it is not quite worn out of use yet among the Vulgar of Scholars, though all the wifer have outgrown, and do despise it; And the rest will do the same, when they come to consider, how vain and inglorious it is, to have our Heads and Books laden, as Cardinal Campeius his Mules were, with old and useless Luggage. And if the magnificence of many Pretenders to Knowledg were laid open, it would amount to no more, than the old Boots and Shooes of that proud and expos'd Ambassadour. Methinks it is but a poor easie Knowledg that can be learnt from an Index; and a mean ambition to be rich in the Inventory of an others Treasure. Authorities alone make no number, unless evidence of Reason stand before them, and all the Ciphers of Arithmetick, are no better than a fingle nothing.

But I return to the consideration of Antiquity: If we impartially look into the Remains of ancient days, we shall find but little to justifie our so slavish a veneration of them: For if we take an account of the state of Science from the beginning, and follow the History of it through the most samous Times, we shall find, that though it hath often changed its Channel, removing from one Nation to another; yet it hath been neither much improved, nor altred, but as Rivers are in passing through different Countries, viz. in Name, and Method: For the succeding Times subscribing to, and copying out those that went before them, with little more than verbal

Diversity, Knowledg hath still been really the same poor and mean Thing, though it hath appeared in pompous Cloathing, and been dignified by the services of many great and renowned Names. The Grecian Learning was but a Transcript of the Chaldean and Ægyptian; and the Roman of the Grecian: And though those former Days had, no doubt, many great Wits, and those that made noble Discoveries; yet we have reason to think that the most considerable and most worthy of them, have perisht and are forgotten. For as the forementioned great Man, the Lord Bacon hash observed, Time, as a River, brings down to us what is more light and superficial, while the Things that are more solid and substantial are sunk and lost.

And now after all this, it will be requifite for me to add, That I intend not these Remarques in favour of any new Conceits in Theology, to gain credit to such by disparaging Christian Antiquity: No, Here the old Paths are undoubtedly best, quod verum id prius: And I put as much difference between the pretended New Lights, and Old Trutis, as I do between the Sun and an evanid Meteor: Though I confess in Philosophy I am a Seeker. Divine Truths were most pure in their Beginnings; they were born in the fulness of time; and, (as fome say the Sun was Created) in their Meridian Strength and Lustre: But the Beginnings of Philosophy were in a very obscure Dawn, and perhaps 'tis yet scarce Morning with it. And therefore what we cannot find among former Inquirers, we are to feek in the Attempts of more Modern Men, and in the Improvements of nearer Ages: And not be discouraged by the Old Law, Nil dictum quod non dictum prius. For as to Knowledg, there is no doubt but there are many things new under the Sun, and this Age hath shewn many Novelties even in the Heavens above, oc.

I have thus shewn thee How our Senses and Affections mislead our Understandings, and so are great occasions of our Ig-

norance and Errors; to which I may add,

III. That the Understanding more immediately contributes to its own Deceptions, through its Precipitancy, and bast in concluding. Truth is not to be attained, without much close and

and severe inquiry: It is not a wide Superficies; easie to be feen, but like a Point or Line that requires Acutness and Intention to discover it; which is the more difficult, because it is so mingled with Appearances and specious Errors, like the Silver in Hiero's Crown of Gold; or rather like the Grains of Gold in a Maß of baser Mettals; It requires much Care, and nice Observation to extract and separate the precious Oar from so much vile Mixture; so that the Understanding must be patient, and wary, and thoughtful in feeking Truth; It must go step by step, and look every way, and regard many Things: It must distrust Appearances, and be shy of Assent, and confider again and again before it fixeth. This Method is necessary to the attainment of Knowledg; but the Mind is generally indisposed to so much Labour and Caution. It is impatient of suspence, and precipitant in concluding; averse to deep Meditation, and ready to catch at every Appearance: And hence also it is that we embrace Shadows of Fancy and Opinion, and miss of true and substantial Knowledg.

Having now given Instances of the Imperfection of our prefent Knowledg, and shewn some of its Causes, which are further evidence of it; I come to offer a few Confiderations on the whole, against Dogmatizing, and Confidence in uncertain

Opinions. As,

1- Confidence in Philosophy, and Matters of Doubtful Speculation betrays a groffer, and more stupid fort of Ignorance; For 'tis the first step of Knowledg to be sensible that we want it: The most exercised Understandings are most conscious to their Imperfections; and he that is sensible of the frequent failings of his Judgment, will not lean with much trust, and affurance on that which hath fo often deceived him, nor build the Castle of his intellectual Security in the Air of Opinions: But on the other fide, the shallow, unthinking Vulgar, are fure of all things, and bestow their peremtory, full affent on every flight appearance. Knowledg is always modest and wary; but Ignorance is bold and presuming, as Aristotle hath observ'd of the confidence and forwardness of Youth. Thus those that have always liv'd at home, and have never feen any other Country, are confidently perswaded that their own is the best; whereas whereas they that have travel'd, and observ'd other Places, speak more coldly and indifferently of their native Soils; and so those confined Understandings that never looked beyond the Opinions in which they were bred, are excedingly affar'd of the Truth, and comparative excellency of their own Tenants; when as the larger Minds that have travail'd the divers Climates of Opinions, and consider'd the various Sentiments of inquiring Men, are more cantious in their Conclusions, and more sparing in positive Affirmations. And if the Dogmatist could be persuaded to weigh the Appearances of Truth and Reason, that are in many other Opinions that he counts unreasonable and absurd, this would be a means to allay, if not to cure his Considence.

2. Dogmatizing in things uncertain, doth commonly inhabit with untained Passions, and is usually maintain'd upon the obstinacy of an ungover'd Spirit. For one of the first Rules in the Art of Self Government, is, to be modest in Opinions: And this Wisdom makes Men considerate and wary, distrustful of their own Powers, and jealous of their Thoughts: He that would rule himself, must be circumspect in his Actions; and he that would be so, must not be halfy, and over-considere in his Conclusions. Tis Pride, and Presumption of ones self that causeth such sorwardness and assurance; and where those reign, there is neither Vertue nor Reason; No regular Government, but a miserable Tyranny of Passion and Self-will.

3. Confidence in Opinions, is the great disturber both of our own Peace, and of the quiet of other Men. He that affirms any thing boldly, is thereby ingaged against every one that opposeth it; He is concern'd, and undertakes for his Tenent, and must fight his way: He confronts every different Judgment, and quarrels all Dissenters; He is angry that others do not see that, which he presumes is so clear; he clamours and reviles; He is still disputing, and still in a storm: He cannot bear a Contraction, nor scarce a Suspence of Judgment. So that his Peace is at every ones Mercy, and whoever will cross his saying, throws him into the Fire, and destroys his Quiet: And such a Man need not be more miserable. On this account the Stoicks affected an indifferency and neutrality in all Things, as the only means to that freedom from Passion and Disturbance,

which

which they fought: and if there be any repose attainable by the Methods of Reason, there is nothing so like to afford it, as unconcernment in doubtful Opinions. The contrary Zeal and affurance, as it robs every Man of his private happiness, so hath it destroyed the Peace of Mankind: It hath made the World an Aceldama, and a Babel. For this is the ground of all the Schisms, and strivings of Sects, that have fill'd our Air with Smoke and Darkness; yea, and kindled the fierce Flames that have confumed us. Every vain Opiniator is as much affured as if he were infallible; His Opinions are Truths, certain Truths, Fundamental Ones; and the contrary Doctrines Heretical and Abominable. Hence arise Diffutes. Hatreds, Separations, Wars, of which we have feen, and yet fee very much; and God knows how much more we may: Of all which Mischiefs here is the Ground, viz. Mens pre-Sumptions of the certainty of their own Conceits and Ways: and could they but be induced to be modelt in them, and to look on them with the eye of less assurance, it would abate their Heats and Animosities, and make way for Peace, and charitable Agreement in the things that are undoubtedly True, and Good.

4. Considence in Opinions is ill Manners, and an affront to all that differ from us; For the Dogmatist chargeth every one with Ignorance and Error, that subscribes not his Sayings. In effect, he gives the lie to whosoever dares dissent from him; and declares that his Judgment is fittest to be the Intellectual Standard. This is that Spirit of Pride and Rudeness, that saith to every different Apprehender, Stand off, I am more Orthodox than thou art; a Vanity that is worse than any simple Error.

5. Dogmatizing, and Confidence in doubtful Tenents, holds the Opiniator fast in his Misconceits and Errors. For he that is confident of all things, is unavoidably deceived in most; and he that assures himself he never errs, will always err: His Presumptions will deseat all attempts of better Information. We never seek for that which we think we have already, but reject those Aids that make promise and offer of it. And he that huggs Vanity and Falshood; in the considence of undoubted and Sesence, is commonly intractable to the Methods

thods that should rectifie his Judgment. Ignorance is far fooner cured, than false conceit of Knowledg: and he was a very wise Man that said, There is more hope of a Fool, than of him

that is wife in his own Eyes.

6. Dogmatizing shews Poverty, and narrowness of Spirit: There is no greater Vassallage, than that of being enslaved to Opinions. The Dogmatist is pent up in his Prison, and sees no Light but what comes in at those Grates. He hath no liberty of Thoughts, no prospect of various Objects: while the considerate and modest Inquirer, hath a large Sphere of Motion, and the satisfaction of more open Light; He sees far, and injoys the pleasure of surveying the divers Images of the Mind. But the Opiniator hath a poor shrivel d Soul, that will but just hold his little Set of Thoughts: His Appetite after Knowledg, is satisfied with his sew Mushromes, and neither knows nor thinks of any thing beyond his Cottage and his Rags.

I might say a great deal more to the shame of this folly, but what I have writ will be enough for the Capable and Ingenious; and much less would have been too much for others.

And now when I look back upon the main Subject of these Papers, it appears so vast to my Thoughts, that me-thinks I have drawn but a Cockle-shell of Water from the Ocean: Whatever I look upon, within the Amplitude of Heaven and Earth, is evidence of Humane Ignorance: For all things are a great Darkness to us, and we are so to our selves: The plainest things are as obscure, as the most confessedly mysterious; and the Plants we tread on are as much above us, as the Stars and Heavens: The things that touch us, are as diffant from us as the Poles, and we are as much Strangers to our selves, as to the People of the Indies. On review of which, me thinks I could begin anew to represent the imperfection of our Knowledg, and the vanity of bold Opinions, which the Dogmatists themselves demonstrate, while each Disputer is consident, that the others confidence is vain, from which a third, with more reason, may conclude the same of the confidence of both: And one would think there should need no more to bring those assured Men to modest Acknowledgments, and more becomming Temper than this, That there is nothing about which the - आंध Reason

Reason of Man is capable of being employed, but hath been the Subject of Diffute, and diverse apprehension: So that the Lord Montaigne hath observ'd, Mankind is agreed in nothing, no not in this, That the Heavens are over us; Every Man atmost differs from another, yea and every Man from himself; and yet every one is affured of his own Schemes of conje-Gure, though he cannot hold that Assurance but by this proud Absurdity, That he alone is in the right, and all the rest of the World mistaken. I say then, there being so much to be produced both from the natural and moral World, to the shame of boasting Ignorance; I cannot reckon of what I have said but as an imperfect Offer at a Subject, to which I could not do right, without discoursing all Things: On which account I had resolv'd once to suffer this Trifle to pass out of Print and Mémory: But then confidering, that the Instances I had given of humane Ignrance were not only clear ones, but such also as are not ordinarily suspected; from whence to our shortness in other things, 'tis an easie Inference; I was thence induced to think it might be useful to promote that temper of Mind that is necessary to true Philosophy and right Knowlcdg.

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OF

SCEPTICISM and CERTAINTY:

In a short Reply

To the Learned Mr. Thomas White.

To a Friend.

SIR,

Here send you a Supplement to the sormer Essay. About two years after my Vanity of Dogmatizing was first printed, there appeared a Book written in Latin against it, which had this Title, SCIRI, sive scepties & scepticorum a jure Disputationia exclusio. The Author was that Learned Man, who hath publisht so many Writings, and is so highly celebrated by Sir Kenelm Digby; especially samous for his Tract de Mundo: He calls himself sometimes Thomas ex Albiis East Saxonum; in other Writings, and particularly in this, Thomas Albius: His English Name is Thomas White, a Roman Catholick, and samed Writer for that Church, though censured for some of his Doctrines at Rome. I writ a civil Answer to his Book, which was annext to the Vanity of Dogmatizing, reprinted 1665.

That Answer was in English, because the Discourse it defended was so; and I did not think the Matter worth the Universal Language: Besides, I was induced to reply in that

Tongue,

Tongue, by the Example of a Noble Philosopher, one of the great Ornaments of his Age, and Nation, who had then newly answer'd a Latin Book, written by one Linus against him, in English. About the same time that my Reply was printed, his SCIRI came forth again in our Language, whether translated by himself, or any Disciple of his, I do not know; The Title was, An Exclusion of Scepticks from all title to Dispute: being an Answer to the Vanity of Dogmatizing: by Thi. Vi hite. Now because there was nothing of Reply in that new Edition of his Book, I thought to have concerned my felf no more about it: but having made you a promise of Some Notes concerning Scepticism and Certainty, I have thought fit to treat of those Matters by way of further Answer to that Learned Man.

He principally infills on three things. (1.) The Charge of Scepticism. (2.) The Accountableness of those Philosophical Diffi. u'tics I have mention'd, as things not yet refolv'd. And, (3.) The Defence of Aristotle. The first is the Subject for which I standingag'd to you; and the second belongs to it, and will be a very seasonable, if not necessary Supplement to the Essay against Confidence in Philosophy. But for the third, I shall refer you to what I have said in my other Answer, and in my Letter concerning Aristotle; being not willing to meddle any further in Affairs of that nature.

I. The charge of Ecenticism seems to be the main thing: For, belides that it makes up the Title, the Author hath been pleas'd to write a folemn Warning to the Youth of the Univertities, on the occasion of my Book, which he calls Ulcus Glanvillanum, in the first page of his Preface; and declares this pretended Scepticism of mine to be the occasion of his ingagement, in the first paragraph of his Discourse.

Now because a great and celebrated Philosopher, with whom I am not fit to be nam'd, is brought in as the Reviver of this deadly Scepticism, which I am supposed to endeavour to advance after him; I shall repeat the whole Passage, that I may the retter vindicate both him and my felf against this Objection; and treat a little of this so common Imputation, which is almost every where alledg'd against all Free Philosophers, who dare think or say any thing that Aristotle hath not

taught. The Learned Man Objects thus, p. 1.

Scepticism born of old by an unsucky miscarriage of Nature, for her own credit carried off the Tongues of the Eloquent, where it had long been foster'd and buried by the fleadine's of Christian Faith; this Monster snatcht from the 'Teeth of Worms, and Infects, Peter Gassendus, a Man of a most piercing Sagacity, of neat and copious Eloquence, of most pleasing behaviour and wonderful diligence, by a kind of Magick, hath endeavour'd to restore again to Life. He, a Person (which is the strangest of all) most tenacious of Catholick Faith, and never suspected guilty of mischievous Tenents: whereas, yet, this Scepticism is the Mother of infinite Errors, and all Herefies, and that very seducing Phiclosophy, and vain Fallacy which the Saints warned by the Apostles have taught us to beware of. Her this Man, otherwise eminent, in his paradoxical Exercitations against the Aristotelians, hath dared to expose, not vailed as before, and wandring like a Quean in the dark, but bold-fac'd, and painted, to the Multitude, and Market-place.

By his example, the Author of the Vanity of Dogmaticaling, hath produced her amongst us, beauteously trickt up, in English: He too a great Master of Wit and Eloquence; nor indeed are vast Mischiefs to be dreaded from vulgar.

"Heads. This is the occasion of my undertaking.

This is the Charge; but the fevere imputation is sweetned by many very kind words of commendation, which are most justly due to the renowned Gassendus, but given gratus, and undeservedly to the Author of the Vanity of Dogmatizing. In answer to this charge, I shall set down my Thoughts of. Scepticism and Certainty, Subjects well worth considering.

The word Scepticism is derived from Σκέπτομαι, which fignifies to speculate, to look about, to deliberate: An ancient Sect of Philosophers were hence call'd Σκέπτικοὶ, Scepticks; as also Ζκάπτικοὶ, Seekers; 'Απορμπικοὶ, Doubters; and Πυξερόνειοι, Pyrrhonians, from Pyrrho the first noted Author of this Sect. This Pyrrho lived about the time of Alexander the Great, and was born at Elis: He was at first a Painter; some say an ill one; and yet he had better have so continued, for

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his Philosophy was worse than his Painting. He seems to me, according to the account we have of him, to have been a gross and humoursome Fanatick; especially if that be true that is related by Laertius, That he shun'd and heeded nothing, and would not step aside out of the way for Waggons, Precipices, or Dogs, so that he was follow'd and look'd after like an Ideot, and a Child, then whom his Actions were more stupid: Besides which testimony, we have a worse character of him from Aristocles, Xonson soli ste Euger-viz. That he neither invented, nor writ any thing that was good, but railed both at Gods and Men. And yet it should seem, by the honour his Country did him, that he was not so very a Sot as some thought, and as divers Passages in the Story of his Life speak him: For he was made High Priest, and great Immunities and Priviledges given to Philosophers for his lake. But I have nothing to do with the Story of his Life: His Disciples were many, the most eminent of them reckon'd by Laertius; but none hath left so exact an account in writing of the Sceptick Doctrines, (if they may be so call'd) as Sextus Empiricus, one much later than those Sectators of Pyrrho. The chief ground of Scepticism he saith, is this, Havi Nova Novo ioo aviluaται, That every reason hath an equal one opposite to it: So that they gave no affent to any thing. They allow'd Appearances, but would not grant, that things really are in themfelves as they appear to our Senses: or that we can by our Reasons judg any thing truly, and certainly of them: That there is nothing fair or foul, just or unjust, nothing true or real in any thing; as Laertius speaks of the belief of Pyrrbo. And therefore their Phrases were, & μαλλον, that is, Not more this than that, τάχα, κ' & τάχα; perhaps, and not perhaps: viz. perhaps it is, perhaps it is not. Έπέχω, I suspend, εθεν δρίζω, I determine nothing; ε καταλαμβάνω, I comprehend not. And for fear they should be Dogmatical, even in these Phrases, Empericus saith, That they do only declare their present Affections, expressing how things appear to them, without determining any thing, and even not determining to much as this, I determine nothing.

Now besides the professed Disciples of this Sect, divers other ancient Philosophers spoke doubtfully, and unresolvedly

of things: and Cicero in Licullus faith thus of Empedocles; Empedocles, ut interdum mihi furere videatur, abstrusa esse omnia, nihil nos sentire, nihil cernere, nihil omnino quale sit posse reperire. Sextus Empiricus mentions divers others, who it seems were thought to be Scepticks, or very near them; as Heraclitus, because he taught that Contraries are in the same thing: Democritus, for denying Hony to be sweet or bitter: The Syrenaick Sect, holding that only the Affections are comprehended: Protagoras, for making the Phanomena particular to every fingle Person. But all these he shews to have been Affertors, and very different from the Pyrrbonian Sect. He inquires also of the Academick Philosophy, how it agreed with, or disagreed from the Sceptick. These Philosophers were reputed anciently, and by some ever since thought to be too much addicted to that way. But Sextus clears them from it, beginning with Plato the Founder of the first School, of whom he faith, That though in his Gymnasticks, where Socrates is brought in deriding the Sophists, he hath the Sceptick, uncertain Character; yet in declaring his Opinion, he was a Dogmatist; particularly in his Doctrines of Ideas, Providence, the preference of a Life of Vertue: Which if Plato affent to as existent, he affirms dogmatically; if as probable, he differs from the Sceptick, in preferring one Opinion before another. Those of the New Academy say all things are incomprehensible, in which, saith Sextus, they differ from us, because they affert this; but we do not know but that they may be comprehended. They differ also in afferting Good, and Evils, and that some things are credible, others not; whereas the Pyrrhonians count all to be equal. To this purpose he speaks of them: But for the middle Academy founded by Arcesilans he saith, that that Philosopher's Institution, and theirs were almost the same, in that Arcesilans afferted nothing of the existence, or non-existence of things, not preferring one Opinion before another, but in all things suspending. Which he did to make tryal of his Disciples, whether they were capable of the Doctrine of Pl. to, which he taught to his Friends.

Thus that famous Sceptick doth honour to the memory of those Ancients, by endeavouring to take what he thought to be

be credit from them, which indeed was ever a difgrace, and ought to be so esteemed still. For those Pyrrhonians, that were of the right strain, seem to me to have been a sort of conceited Humorists, that took a pride in being fingular, and venting strange things; opposing all knowledg, that they might be thought to have the most, and to have found out that universal ignorance, and uncertainty, which others could not see far enough to descry. Which way of pretended Philosophy, as it gratified their pride, so it serv'd their malice and illnature, which delights much in the Spirit of Contradiction. and contempt of other Men. This they shew'd in great degree according to Laertius, who faith, Eun Deis ? 785 Doyua-THOUS & TEDANOV; They accounted all Fools that were not of their own Party. So that they were in no wife to be reckon'd as Philosophers; ἀναρδσαν ή γε δή τας το φιλοσοφείν άρχας, as Aristocles speaks in Ensebius; For they pluckt up the Principles of Philosophy by the Roots. And indeed their doubting and suspension was not in order to the forming a surer Judgment, but a resolution to sit down for ever in despair of Knowledg: And therefore they were very improperly call'd Zurininoi, Seekers, fince their great Principle was, that nothing was to be found. Upon the whole, it was not without cause that Cicero, Aristocles, and other sober Philosophers spoke of their way as down-right madness; and we have great reason to believe so of the Founder of the Sect, if that be true which is related by Laertius, and others, of his washing a Sow, and running into the Forum with a Spit of Meat in his hand after the Cook that had offended him; a thing very unbecoming the Professor of the so much talkt of atapasa, or freedom from disturbance. And his unconcernment another time was as fottish, when he past on, and would not help or take notice of his Friend Anaxarchus, when he was fallen into a Ditch; which was bruitish stupidity, rather than Philosophical Indifference. And indeed this Sect indeavoured to divest themselves of Humane Nature, as Pyrrho's answer implied, when he was upbraided for avoiding a Dog, viz. that twas hard wholly to put off Man; and so they were destru-Crive to the Societies, and all the Interests of Mankind: This I say upon the supposition that they were in earnest; and believ'd

liev'd themselves; but I incline to think, that they were only humoursom, and conceited Fellows; rather than I will say that

they were absolutely distracted.

Thus you see I could revite against the Scepticks, as well as reach my Antagonist; but letting further censure of them pass, I might take notice on this occasion, what odd extravagant People have of old had the name of Philosophers, as if those Ages (as the Turks now) had a reverence for Madmen: For many of their Actions and Opinions were very wild freaks of Fancy and Humour, and would gain Men in these days (as foolish and bad as they are) no better name, than that of Lunaticks, or Bedlams. This will appear to any one that shall impartially survey the Histories of their Lives, if those Accounts were true that are given of them. But indeed there is reason enough to doubt that: For the Relations we have of old times are usually very fabulous and uncertain, and where the Grecians were concern'd as much as any where, for they had the same Character given them, that the Apostle bestows upon the Cretians; Grecia mendax. Which among other things shews, how little reason there is we should be superstitiously fond of the broken, dubious, imperfect Remains of those days. But methinks those Philosophers should be greater Men, than they were made in those Histories of their Lives and Doctrines, or else one may justly wonder how their Names come down to us with so much Renown and Glory. But to return to more particular Discourse of the Scepticks.

Besides Those anciently, that had that name without just ground sometimes affixt on them, several worthy Moderns have suffer'd under the imputation: and indeed by some all Men are accounted Scepticks, who dare diffent from the Aristotelian Doctrines, and will not slavishly subscribe all the Tenents of that Distator in Philosophy, which they esteem the only true and certain Foundations of Knowledg: This learned Man seems to be one of those, for the great Gassendus is charged with so much Scepticism on this account, that he writ an Exercitation against Aristotle, p. 2. and those that slight Aristotle's Grounds (saith our Author in his Preface to the Universities) must of necessity, being always in quest of Principles, ever fall short of Science. Aristotle's Works it

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feems are the infallibe Canon of Truth and Certainty; in him are hid all the Treasures of natural Wisdom and Knowledg; and there is no name given under Heaven, by which we can be saved from Scepicism, and everlasting uncertainty, but his. If this be so, all the modern Free Philosophers must be Scepicks, and there is no help: and the Author of the Vanity of Dogmatizing hath no way to escape the imputation; nor indeed, (if this be all) hath he any concern to avoid it. But the Learned Man may be remembred, that in one respect they are not Scepicks, being consident in this belief, that the Principles of Aristotle are not such Gertainties, but that 'tis possible, succeeding Mankind may sometime or other find error and impersection in them; and discover (if it have not been done already) that they are not the infallible Measures of Truth and Nature.

But the Free Philosophers are by others accounted Scepticks from their way of enquiry, which is not to continue still poring upon the Writings and Opinions of Philosophers, but to feek Truth in the Great Book of Nature; and in that fearen to proceed with wariness and circumspection without too much forwardness in establishing Maxims, and positive Doctrines: To propose their Opinions as Hypotheseis, that may probably be the true accounts, without peremptorily affirming that they This, among others, hath been the way of those Great Men, the Lord Bacon, and Des Cartes; and is now the method of the Royal Society of London, whose Motto is, Builius in Merba. This is Scepticism with some ; and if it be so indeed, 'tis such Scepticism, as is the only way to sure and grounded Knowledge, to which confidence in uncertain Opinions is the most fatal Enemy. Nor doth the Learned Man accuse me of any more than this, in his Preface, in which he thus speaks. 'I am not angry with the Man, who with a great deal of Wit, and an unfordable stream of Eloquence Cen-'cessive courtesse) which will ripen with his years, prosecutes what he proposeth to himself, and takes for a truth, not without some savour of modesty: For neither doth he derogate from Faith the power of teaching its Tenents, nor disclaim all hopes of attaining Science hereafter through a laborious amasement of Experiments. Here I am abfolv'd.

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folv'd from being a Sceptick, in the ill sense; For I neither derogate from Faith, nor despair of Science: and the Opinions of those of that character are directly destructive of the one, and everlassing discouragements of the other. Or, if I should affirm that I despair of Science, strictly and properly so call'd, in the Affairs of Philosophy and Nature; If I should say, we are to expect no more from our Experiments and Inquiries, than great likelyhood, and such degrees of probability, as might deserve an hopeful affent; yet thus much of distince and uncertainty would not make me a Sceptick; since They taught, That no one thing was more probable than

an other ; and so with-held affent from all things.

So that upon the whole I cannot but wonder, that this Philosopher, who seems to be so concern'd for the advancement of Knowledg, should oppose me in a Design that hath the same end : only we differ in the Means and Method; For he thinks it is best promoted by perswading, that Science is not Uncertainty; and I suppose that Men need to be convinc'd, that Uncertainties are not Science. Now the progress of Knowledg being stopt by extreme Confidence on the one hand, and Distidence on the other; I think that both are necessary, though perhaps one is more seasonable: For to believe that every thing is certain, is as great a difinterest to Science, as to conceive that nothing is so: Opinion of Fulness being, as my Lord Bacon notes, among the Causes of Want. So that after all. we differ but in this, That the Learned Man thinks it more Sutable to the necessities of the present Age, to depress Scepticism; and it may be, I look on Dogmatizing, and confident Belief as the more dangerous and common Evil: And indeed between the Slaves of Superstition and Enthusiasm, Education and Interest, almost all the World are Dogmatists; while Scepticks are but some more desperate Renegado's. whose Intellects are either debauched by Vice, or turn'd out of the way by the unreasonable Confidence of vain Opiniators. In opposing whose Presumptions, I designed also against the neutrality of the Scepticks; and did not conceited Sciolists ascribe so much to their Opinions, there would be no need of SCIRI'S, or Perswasives to easie and peremptory Assents; which indeed have more need of Restraints than Incentives;

fince 'tis the nature of Man to be far more apt to confide in his Conceptions, than to distrust them; and 'tis a question whether there be any Scepticks in good earnest. So that I am fo far from deserving Reproof from the Adversaries of Intellectual Diffidence, that were there reason for either, I might expect Acknowledgments: For Confidence in Uncertainties is the greatest Enemy to what is certain, and were I a Sceptick, I would plead for Dogmatizing; the way to bring Men to flick to nothing, being confidently to perswade them to swallow all things. For among a multitude of things carelesly receiv'd; many will be false, and many doubtful : and confequently a mind not wholly stupid will some time or other find reason to distrust and reject some of its Opinions: Upon review of which, perceiving it imbraced Falshoods for great Certainties, and confided in them as much as in those it yet retains, it will be in great danger of staggering in the rest, and discarding all promiscuously: Whereas if a Man proportion the degree of his Assent, to the degree of Evidence, being more sparing and referv'd to the more difficult, and not throughly examin'd Theories, and confident only of those that are distinctly and clearly apprehended; he stands upon a firm bottom, and is not mov'd by the winds of Fancy and Humour, which blow up and down the conceited Dogmatists: For the Affent that is difficultly obtain'd, and sparingly bestow'd, is better establish'd and fixt, than that which hath been easie and precipitant.

Upon the whole Matter it appears, that this Learned Person had no cause to write against me as a Sceptick: And I somewhat the more wonder at it, because I find such things attributed to those, he is pleas'd to call by that name, that no way agree with the Way and Spirit of those Philosophers, whose genius I recommend and defire to imitate: On which account I thought he had some other notion of Sceptick than was usual; and casting mine eye over his late Purgation presented to the Cardinals of the Inquisition, I found that his Scepticks were some of the Modern, Peripatetical Disputers: These, it seems by their many complaints against his Writings, had obtain'd a general condemnation of them from the Pope and Confiftory of Cardinals; whom therefore in his Appeal to the faid Cardinals

dinals he accuseth of Ignorance, Corruption of the Aristotelian Doctrines, and Tendency to Heresie and Atheism: And that these are the Scepticks he means, appears from the Presace against me, and divers other Passages of his Book: So that 'tis yet more wonderful, that Gassendus, and the Author of the Vanity of Dogmatizing, should be call'd by a Name, which he bestows upon those of so different a temper.

And thus of that charge of Scepticism, with which he begins as the occasion of his writing: Having premised which, he endeavours to lay the sure Foundations of Science, and to establish Certainty in Knowledg. But what-ever impersections there are in that pretended demonstration, I shall not for the present take notice of them; but only observe, that this Gentleman is the Author of that Science, Demonstration, and Self-evidence, of which M. Sargeant, a late controvertial Writer for the Roman Church, makes such boasts of; and here are his Grounds: Which those learned Men, that are concern'd with him, may if they please, when they have nothing else to do, examine.

Having faid thus much of Scepticism, and the Scepticks, I shall enquire a little into the matter of Certainty, a subject of

both difficulty and importance. I will be to be to be to be

It is taken either (1.) for a firm Affent to any thing, of which there is no reason of doubt; and this may be call'd Indubitable Certainty; or (2.) for an absolute Assurance, that things are as we conceive and assurance, and not possible to be

otherwise, and this is Infallible Certainty. I de la vine

In the first of these Des Cartes lays his Foundations: I cannot doubt, but I think, though nothing should be as I conceive; and there I cannot suspect neither, but that I my self; that think, am. I am as sure that I have Idæas, and Conceptions of other things without me, as of God, Heaven, Earth, &c. Thus far that Philosopher is safe, and our Assent is full; and it is so in this likewise, That me can compound, or disjoin those Images by affirming, and denying; and that we have a faculty of Reasoning, and inferring one thing from another: So much as this we clearly perceive, and feel in our selves, what ever uncertainty there may be in other matters. To these we give a resolved and firm Assent, and we have not

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the least reason of doubt here. Besides which Principles we find others in our minds that are more general, and are us'd and supposed by us in all our Affirmations and Reasonings. to which we aftent as fully, such are these: Every thing is, or is not: A thing cannot be and not be, in the Same respects: Nothing hath no Attributes: What we conceive to belong, or not to belong to any thing, we can affirm, or deny of it.

These are the Principles of all Propositions, and Ratiocinations whatfoever: and we affent to them fully, as foon as we understand their meaning, to which I add this great one more, That our Faculties are true, viz. That what our understandings declare of things clearly and distinctly perceiv'd by us, is truly so, and agreeing with the realities of things themselves. This is a Principle that we believe firmly; but cannot prove. for all proof, and reasoning supposeth it: And therefore I think Des-Cartes is out in his method; when from the Idea's he endeavours to prove that God is, and from his Existence that our Faculties are true: When as the truth of our Faculcies was presupposed to the proof of God's Existence; yea, and to that of our own also. So that, that great Man seems to argue in a Circle. But to let that pass; This we constantly affent to without doubting, That our Faculties do not always delude us, That they are not mere Impostors and Deceivers. but report things to us as they are, when they distinctly and clearly perceive them. And so this may be reckon'd one of the prime certain Principles, and the very Foundation of Certainty in the first sense of it.

These and such like Principles result out of the nature of

our Minds: But.

2. There are other Certainties arising from the evidence of Sense: As, That there is Matter, and Motion in the World: That Matter is extented divisible and impenetrable: That Motion is direct, or oblique: That Matter, and Motion, are capable of great variety of Modifications and Changes. We learn that thefe, and many other fuch things are so, from Sense, and we nothing doubt here; although the Theory and Speculative confideration of those Matters be full of difficulty, and seeming contradiction. In these our Assent is universal and indubitable: But in many particular cases, we are not affure 1

affured of the report of our Senses; yea, we diffent from, and correct their Informations, when they are not in their due Circumstances, of right Disposition, Medium, Distance, and the like: and when they pronounce upon things which they cannot judg of: on which account, though our Senfes. and the Senfes of Mankind do represent the Earth as quiescent: Yet we cannot from thence have affurance that it doth Relt, fince Sense cannot judg of an even and regular Motion, when it self is carried with the movent; so that though it should be true that the Earth moves, yet to Sense it would appear to rest, as now it doth; as I have discours'd elsewhere. But when the Senf.s are exercised about their right Objects, and have the other Circumstances that are requisite, we then affent without doubting. And this fullness of assent is all the certainty we have, or can pretend to; for after all, 'tis possible our Senses may be so contrived, that things may not appear to us as they are: But we fear not this, and the bare possibili-

ty doth not move us.

3. There are Certainties arising from the Testimony of This in ordinary cases is very doubtful, and fallacious, but again in some it is indubitable. As when the Testimony is general, both as to time and place uninteressed, full, plain, and constant, in matters of Sense and of easie Knowledg: In such circumstances as these, the evidence of Testimony is no more doubted, than the first Principles of Reason or Sense. Thus we believe, without the least scruple about it, That there are such places as Rome, and Constantinople, and fuch Countries of Italy and Greece, though we never faw them; and many other Historical Matters, which our selves never knew. The Foundation of which affurance is this Principle, That Mankind cannot be supposed to combine to deceive, in things, wherein they can have no defign or interest to do it. Though the thing have a remote possibility, yet no Man in his Wits can believe it ever was, or will be so: and therefore we affent to fuch Testimonies with the same firmness, that we would to the clearest Demonstrations in the World.

The second sence of Certainty is that, which I call'd Certainty Infallible; when we are affured that 'tis impossible things should be otherwise, than we conceive and affirm of

them: This is a fort of Certainty, that humanely we cannot attain unto, for it may not be absolutely impossible, but that our Faculties may be so contrived, as always to deceive us in the things which we judg most certain and affured: This indeed we do not suspect, and we have no reason to do it: which shews that we are certain in the former Sense: But we may not fay 'tis utterly impossible; and consequently we cannot have the certainty of this latter fort : which perhaps is proper only to Him, who made all things what they are; and discerns their true natures by an infallible and most perfect

knowledg.

The fum of which is, that though we are certain of many things, yet that Certainty is no absolute Infallibility; there still remains the possibility of our being mistaken in all matters of humane Belief and Inquiry. But this bare possibility (as I said) moves us not, nor doth it in the least weaken our assent to those things, that we clearly and distinctly perceive: but we believe with as much firmness of affurance the Matters that our Faculties do fo report to us, as if there were no fuch possible lity; and of greater Certainty than this there is no need. is enough for us, that we have fuch Principles lodged in our minds, that we cannot but affent to; and we find nothing to

give us occasion to doubt of the truth of them.

This is Humane Certainty, and let vain and affected Scepticks talk what they will, they cannot in earnest doubt of those first Principles which I have mention'd. universal, and believ'd by all Mankind; every one knows. every one useth them: For though they do not lie in the minds of all Men in the formality of fuch Propositions, yet they are implicitly there; and in the force and power of them every Man reasons, and acts also. These are the Seed of Reafon, and all the Conclusions (at never so great a distance) that are truly deduc'd from those first Certainties, are as true and certain as they are; and both together make up what we call Reason. So that this is not so various and giddy a thing as some vain inconsiderate Men talk; but 'tis one steady Certainty, and the same all the World over. Fancies, Opinions, and Humors, that mistaken Men call Reason, are infinitely divers, and fallacious; But those Principles and Conclutions:

clusions that are clearly and distinctly perceived by our minds; those that are immdiately lodg'd in them, and the consequences that truly arise from these, and the right informations of Sence, they are one, and certain, without variety or deceir. Now all Men partake of Reason in some degree (of the prime Principles at least, and the Faculty of deducing one thing from another); But the most use that little perversly, and to their own deception, arguing from prejudices of Senfe, Imagination, and customary Tenents, and so filling up their minds with false and deceitful Images, instead of Truth and 'Tis the office and business of Philosophy, to teach Men the right use of their Faculties, in order to the extending and inlarging of their Reasons; and one principal Rule it gives is, To be wary and diffident, not to be hafty in our Conclusions, or over-confident of Opinions; but to be sparing of our affent, and not to afford it but to things clearly and distinctly perceiv'd: And this was the aim and design of that Discourse, which this Learned Man accuseth as such a piece of Scepticism, and discouragement of Science.

I have now said what I intended concerning the first thing, on which my Assailant insists, The charge of Scepticism, and I

suppose I have sufficiently shewn the injustice of it.

I proceed to the second main Business of his Book, which is to give an account of those difficulties which I have mention'd. as yet unresolv'd: Concerning those I affirm not, that they are impossible to be unridled, but that they have not been explain'd by any yet extant Hypothefis; a sad Argument of intellectual deficience, that after so much talk of Science and endeavour after Knowledg, we should be yet to seek, and that in those Matters which we have the greatest advantages to understand. But this learned Man thinks he can resolve them; and I have so great a kindness for any ingenious attempts of this fort, and so great a defire to be satisfied about those Theories, that I am ready to entertain any good probability that shall be offer'd, even by a profest Antagonist; for Truth is welcome to me from any hand that brings it. I have therefore candidly, and impartially confider'd this Gentleman's Solutions, but cannot fatisfie my felf with them. The Reasons of H 2 my

my Dissatisfactions I shall now give in an examination of his Accounts.

He takes occasion from my waving the difficulties of Maznetism, and the flux and reflux of the Sea, to give his solution of them; But I am not concern'd here, they are none of the things on which I intift, yea I professedly decline them; and intimate that these are better known, than less-acknowledg'd Mysteries; Des-Cartes his Hypotheseis are fair and probable, but I think this Philosopher's Accounts very obnoxious, especially there where he makes so constant and regular an effect, as is the flux and reflux of the Sea to be caus'd by so uncerrain, and proverbially inconfrant a thing as the Winds. But I shall not trouble my self to remarque on Matters, with which my Discourse hath nothing to do. My business is with the pretended Answers to the Difficulties I mention, as not well refolv'd by any yet known Hypothesis: On which the Learned Man enters, Plea 5th, and in order begins with those about the SOUL, in these words.

'I. In the third Chapter therefore of his most eloquent Difcourse, be objects our Ignorance of that thing we ought to be best

'acquainted with, viz. our own SOULS, p. 30.

This I do, and to the Difficulties I propound about the Origine of the Soul: It's Union with the Body: It's moving of it, and direction of the Spirits; The general, short Answer is, That to suppose the Soul a Substance, that may be made, come, and join d to another, a Subsistence, Thing, or Substance, is a most important Error in Philosophy, of which, he saith, none can doubt, that is able to discern the opposition of one, and mamy, [ibid.] The meaning of which must be, That the Soul is no distinct Substance from the Body: And if so, almost all the World hath hitherto been miltaken: For if weinguire into the Philosophy of the Soul, as high as any accounts are given of it, we shall find its real substantial distinction from the Body to have been the current belief of all Ages, notwithstanding what this Gentleman saith, That none can doubt that this is an error in Philosophy, that knows the opposition of one and many. For,

(1.) The highest times, of whose Doctrines we have any

History,

History, believ'd its Preexistence; and consequently that it is a certain Substance, that might be made, come, and be join'd to

another. Of this I'le say a few things.

If credit may be given to the Chaldean Oracles, (and perhaps more is due to them than some will allow) Preexistence is of highest Antiquity. We have that Doctrine plainly taught in those ancient Verses:

χρη σε σπεύθειν πρός το φάω, η πατρός ἀυγάς, Εν. Σεν επέμφθη σοι Τυχή.—

Oportet te festinare ad Lucem, & patris Lumina, . Unde missa tibi est anima.—

And afterwards more clearly,

Δίζεο σὰ Δυχίς όχετὰν, όθεν ἢ τινὶ ταξει: Σώματι τιθέυσας ἐπὶ ταξινάφ ἢς εξξύης Αῦθις ἀναρήσεις.

Quare tu anima canalem, unde aut quo ordine Corpori inservieris in ordinem a quo effluxisti Rursus restituas.

And Iselius in his exposition of the Chaldean Theology tells us, That according to their Doctrine Souls descended hither, "H dià nare escusion, ii dià sexuan nate unit eis to nos piroti ne expero differ, Either through the moultring of its Wings, or the will of the Father of Spirits, that they might adorn this Terrestrial State: And again Zoroaster, speaking of Humane Souls, saith they are sent down to Earth from Heaven, not youar as searches.

2. Trismegistus (if those remains that bear his Name may be allow'd) is express in afferting the same Doctrine: In his Minerva Mundi he brings in God threatning those he had placed in an happy condition of Life and injoyment, with Bonds and Imprisonment, in case of Disobedience; Δεσμές, με κολάσεις υμών πεχνιπεύσω: and they transgressing, he adds, That he commanded the Souls to be put into Bodies; με πάς

luzais.

ψικός ἐκέλευσε ἐνοωματιδίωαι: And in another place affigns this for the cause of their Imprisonment in Bodies; Ἐπίγιωτε δ΄ δι δια τὰ περοδεν περικλέντα ὑμῶν κόλασιν τουτίω ποριένετε, ελ ἐνοωμάτεσιν. He would have them acknowledg that they sustain'd that punishment, and imprisonment in Bodies for the things they had done before they came into them.

3. It was also the Opinion of the Ancient Jews; That all Souls were at first created together, and resided in a place they call Goph, a Celestial Region. And therefore 'tis said in the Mishna, Non aderit filius David, priusquam exhausta suerint universa Anima qua suer in Goph. So that they believ'd all Generations on Earth to be supplyed from that Promptuary, and Element of Souls in Heaven; whence they supposed them to descend by the North Pole, and to ascend by the South; whence the saying of the Cabalists, Magnus Aquilo Scaturigo Animarum; From which Tradition 'tis like Homer had this Nottion,

Δύω ή τε άι θύραι εισίν, Αι μλυ πρός βορέαν καταβαται ανθρώποισιν. Αι ή αι πρός νότον εισί θεώτεροι, έθετι μείνη "Ανθρες εσέρχονται, αλλ' άθανάτων όθος εςί.

Hac Boream Spectans homines demittit: at illa Respiciens Austrum divinior, invia prorsus Est homini, prabetque viam immortalibus unis.

4. Tis notoriously known, that Pythagoras and his Sectators held the Doctrine of Transmigration, which supposeth Preexistence, and both, that the Soul is a Substance, which can come, and be join'd to another thing. Some Pythagoreans write, that Pythagoras himself after 216 years Transammation returned to Life again. Now this Opinion being so universally imputed to this Philosopher, and his School, I shall not need to insist on it as far as it concerns them: but I take notice, that both Jews, Persians, Indians, Arabians, and divers other Nations, &c. did of old, and do still hold the same Doctrine.

Manasses

Manasseb Ben Israel ascribes the Opinion of Transmigration to Abraham; and the Cabalists teach, that every Soul is succesfively join'd to three Bodies: So the same Soul they say, was in Adam, David, and the Messias; and the same in Seib, Shem, and Moses, according to R. Simeon, who (as the Cabalists generally do) stops the course in the third Transmigration: as is noted from him by a Learned Man of our own. are at this day great Sects among the Indians of the East, that retain this Doctrine of Transanimation, believing that the Souls of some descend again into Humane Bodies; but that others pass into the Bodies of Beasts: So did some of the Ancient Pythagoreans, who taught, that good Men returned to their former bleffed and happy Life; but that the wicked in their first Transmigration chang'd their Sex; in the second they descended into Beasts: yea, some supposed them at last to go into Trees, and other Vegetables.

Now all these committed the great Error in Philos phy, of which I am accused, in supposing the Soul to be a certain Substance, which may directly be made, come, and be join'd to ancther thing, and so, according to our Author, They could none

of them discern the opposition of one and many.

But, (2.) This pretended important Error in Philosophy of the Soul's being a Thing, and Substance; and one distinct from the Body, must be held by all, that believe its natural Immortality: for Separability is the greatest Argument of real distinction; especially that which the Schools call Mutual. Now the Soul's Immortality hath had a general Reception from the wifer and better part of Mankind: The Egyptians, Chaldeans, Affyrians, Indians, Fews, Greeks, and universally all that had a name for Wildom among the Ancients, believ'd it. And the same hath been the apprehension of latter Ages. A Councel of the Church of Rome it felf hath defin'd it, and recommended the demonstrating of it to all Christian Philosophers. And if the Soul lives after the dissolution of the Body, 'tis certainly a Substance distinct from it; for nothing can subsist without it self: and real separability cannot confift with Identity and Indistinction.

3. The S. cred and Mosaical Philosophy supposeth the Soul to be a Substance that ean. come, and be join'd to another: For.

it tells us, That God breathed into Adam's Nostrils the Breath of Life; by which generally is understood his infusing a Soul into him: And all the Arguments, that are alledg'd from Scripture to prove its immediate Creation, do strongly conclude it to be a diffinct Substance from the Body.

And, (4.) The same Doctrine is more than once affirm'd by Aristotle himself, for saith he, Asimetal 3 7 var Supa Dev έπεισείναι, ε, Seiov είναι μονον, It remains that the Mind (or 'oul) comes from without, and is only a Divine Thing. Again, ode ves sweets, The Mind is Separate, &c. a thing apart from the Body. For elsewhere he saith, 80 20 durs τη ένεργεια ποινονεί σωματική ενέργεια, The Operations of the Body do not communicate with its (the Soul's) Operations. He calls it, &ola vis, a Substance, or Subsistence; for Supposing which I am reprehended by our Philosopher: And affirms further, o i vos Delozepov Ti i and Its Egy; The Mind is a Divine and Impassible Thing. It appears then from the Tellimonies (and I could alledg more, if there were occasion) that Aristotle taught the real Distinction which I suppose, and so, according to our Author, is one of them that understands not the opposition of one and many. Yea,

(5.) Our Philosopher's learned Friend and Admirer Sir Kenelm Digby is another, for that ingenious Gentleman affirms in his Immortality, That the Soul is a Substance, and a Substance besides the Body; and almost all that Discourse de-

pends on that supposal.

(6.) This Author himself affirms as much in his Peripatetical Institutions, as ever I supposed: For he saith, [Tis most evident, that the Mind is something of another kind from Quantity and Matter; That 'tis a substantial Principle of Man, and no mode or determination of divisibility, and that there is nothing common to Body and Spirit]. Besides which in the fifth Book of the same Institutions he discourseth of the Soul's separation from the Body, and afferts it to be evident, that it perisheth not with it, because it hath Actions that belong not to a Body, but hath of it self the Nature of a Being: and its power of Existence is not taken away, when the Body sails, the Soul being apart from, and besides it; and that matter is not necessary to the Soul's Existence: Many other

other Expressions there are in that Discourse to like purpose, which speak the Soul's Real Distinction from the Body, in as great variety of Phrase, as Diversity and Distinction can be spoken. But all this is forgotten, and now 'tis a mist important Error in Philosophy to suppose the Soul to be a certain Substance, which may directly be made, come, and be join'd to another, and of this none can doubt that understand the Opposition of one and many.

I think now by all this 'tis pretty clear, that my supposition of the Soul's being a distinct Substance from the Body, is not peccant, except all the wifer World, both Ancient and

Modern, have been mistaken, and our Author himself.

But besides all, (2.) It seems to me evident even from the nature of the things, abstracting from Authority. And

I think it appears,

(1.) From all the common Arguments that prove the Soul Immaterial; For Perception, Perception of Spirituals, Universals, Mathematical Lines, Points, Superficies, Congenit Notions, Logical, Metaphysical, and Moral; Self-reflection, Freedom, Indifferency, and Universality of Action: These are all Properties not at all agreeing with Body or Matter, though of never so pure and simple a Nature: Nor is it conceivable how any of these should arise from Modifications of Quantity, being of a divers kind from all the Effects and Phænomena of Motion.

2. If the Soul be not a distinct Substance from the Body, 'tis then a certain Disposition and Modification of it; which this Author in the tenth Lesson of his Institutions, seems to intimate, saying, That since the Soul is a certain Affection—which is introduced, and expell'd by corporeal Action—Hence he inferrs something that is not for our purpose to relate: And if so, since all diversities in Matter arise from Motion and Position of Parts, every different Perception will require a distinct order and position of the Parts of the Matter perceiving, which must be obtain'd by Motion: I demand then, when we pass from one Conception to another, is the Motion (the cause of this Diversity) merely casual; or directed by some Act of Knowledg? The former I suppose no Man in his wits will assure then all our Conceptions will be

mon-sense and consussion; Chance being the Cause of nothing that is orderly and regular: But if there be a knowledg in us of that directs the Motions that make every distinct Conception; I demand, concerning that Knowledg, whether it be in like manner directed by some other; or is it the Essect of mere Casual Motion? If the former, we must run up in infinitum in our inquiry; and the latter admits the alledg'd Absurdities. There is no way then of desending the Assertion of the Souls being Matter, or any modification of it, but by assiring with Mr. Hobbs, a certain connection between all our Thoughts, and a necessary sate in all things, which whoever assirings, will find Difficulties enough in his Assertion to bring him to mine, that there is a Vanity in Dogmatizing, and Considence is unreasonable.

I have infifted the longer on this, because the distinction of the Soul from the Body is a very material Subject, the proof of which is very seasonable for the present Age; and by it I have disabled our Author's pretended Solution of the three Distincties I mention, viz. of the Origine of the Soul; its Union with the Body, and its moving of it. Concerning which last he adds,

P. 33. That true it is, one animated Member moves another, but not that any Substance, that is a pure Soul, moves immediately any Member in which the Soul is not. Which last I know no Body that saith; I cannot affirm the Soul moves any Member immediately, but 'tis like it doth it by the Spirits its Instruments. Much less did I ever say, That the Soul moves any Member in which it is not: But the Seat of Sense, and Original of Animal Motion is in the Brain or Heart, or some other main part (of which in particular I determine nothing). Thence the Soul fends its Influences to govern the Motions of the Body, through all which it is diffused. 'Tis true, one animate Member moves another, but the Motion must somewhere begin: In Actions purely Mechanical, it begins in material Agents that work upon the Body, and its Parts: but in those that are immediately under our Wills, the Motion hath its beginning from the Soul moving first something corporeal in us, by which other parts are mov'd. But our Author appeals to other Animals, in which, he faith, There's frankly denyed a Soul independent on the Body : But this Learned Man knows,

The Platonists assign them Souls immaterial Beings divers from the Body; and the Peripateticks, substantial Ferms dissinct from Matter. Des Cartes indeed thinks them to be pure Machines mov'd altogether after the manner of a Clock or Engine; which if it should prove to be truly their case, yet have we no reason to believe it so in our selves, since we seel it otherwise, viz. That we can move and stop many of our Motions upon the command and direction of the Will; which Faculty belongs to some Principle Immaterial: And is this be always determin'd by something Corporeal, and not in our own power, as he seems to intimate; Farewel Liberty, and welcome Stoical Necessity, and irresistible Fate in all things.

For the other things that follow pag. 35. in answer to the Doubts about Sensation, particularly our decerning Quantities, Distances, &cc. 'Tis evident by what he speaks of demonstrating those things by the Opticks, that he understands not the force of the Objection, and hath said nothing that comes near it; as will appear plainly to any capable Person, that will take the pains to compare what we both write.

He comes next, p. 36. to my Difficulties about the Memory; concerning which I say not, (as he suggests) That 'tis impossible to be explicated; but that none of the known Hypothesein have yet explain'd it; which is sufficient for my general conclusion of the present Imperfection, and the Narrowness of our Knowledg. But our Author thinks Sir K. Digby's account to be the true Solution; and answers to my Objection, that 'tis as conceivable how the Images, and representations of Objects in the Brain should keep their distinct and orderly situations, without confusion or dissipation; as how the Rays of Light should come in a direct Line to the Eye; or how the Atomical Effluvia, that continually slow from all Bodies, should find their way. To which I reply.

(1.) The multiplying Difficulties doth not solve any: for supposing these to be unaccountable, or very hard to be explain'd; yet this would only argue another desect in our Knowledg, and so be a new evidence of the truth of my general Conclusion. But, (2.) The propos'd Instances are not so desperate: For 1. supposing Light, with Des-Cartes (which is most probable) to consist in the

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conamen of the athereal Matter, receding from the Centre of its Motion; the direct tendency of it to the Eye is no difficulty worth confidering; or if the Rays be Atomical Streams. and Essluxes from the Sun, there is then nothing harder to be conceiv'd in this Hypothesis, than in the direct spouting of Water out of a Pipe; nor any more, than in the beating of the Waves against the side of a Ship, when it swims in the Sea. And 2. for the other Instance of corporeal emissions that find their way to the Bodies, with which they have intercourse; it would require to be prov'd, that the secret Operations of Nature are performed by such material effluvia: Perhaps 'tis more likely that those strange Effects are not Mechanical, but Vital, effected by the continuity of the great Spirit of Nature, which is diffus'd through all things: or however, to suppose the Memory to be as clear and plain as Magnetism, and Sympathies, will be no great Advantage to the be-

lief of the intelligibleness of it.

There needs no more here; only I take notice of the Charge, p. 41. in these words, - I'd remember the ingenious Author, that he mis-imposeth the third Opinion (which relisheth nothing of Philosophy) upon Aristotle, who raught the Digbean way. To which, I say, if the Doctrine of Intentional Species be not Aristotle's, than the Universities of Europe (who have taught this Opinion to be his) have hitherto been mistaken; and this Affertion, that Ariftotle deliver'd the Digbean Do-Ctrine of Atomical Effluvia, will alter the whole Hypothesis; and then there will be little or nothing of Aristotle in his Schools. (2.) The Diebean, Atomical Opinion is notoriously known to have been the way of Democritus, and Epicurus, which Aristotle frequently and professedly opposeth; That Democritus taught the Atomical Hypothesis we have Ari-Stotle's affirmation to justifie : pari D (speaking of Leucippus and Democritus) είναι τα πρώτα μεγέθη, πλήθει μέλι άπειρα, μεγέθει δ' άδιάιρετα. Dieunt enim esse primas magnitudines, multitudine quidem infinitus, magnitudine vero indivisibiles and as he goes on, TETAV συμπλοκή, if TEειωλέξει πάντα γωννάθαι: Horum complexione, & circumplexu omnia gigni. And that thefe folv'd the way of Sensation by material Images we have from Plutarch: Dyprone IG, 'Eminop@

Επίκερω η είδάλων εισκρίσεις ώνντο το όραπικον συμβάιvery: Democritus, Epicurus per Idolorum ingressus putarunt visivum evenire. This Hypothesis Aristotle endeavours to confure. άτοπου ή ε, το μη έπελ θειν άνιω άπορησαι δια τί οφ-Jakkios opa Absurdum etiam quod illi non venerit in mentem dubitare, cur oculus vidit solus, aliorum vero nullum quibus apparent idola. And again, Δημούνελο ή κ δι πλεί-501-Democritus & plurimi Physiologorum, quicunque loquuntur de sensu, absurdissimum quiddam faciunt; omnia enim sen-Chilia tastilia faciunt. We see then Aristotle thought the Doctrine of Sensation by Corporeal Images absurd in Democritus and Epicurus, and therefore he must have much contradicted himself, if he taught the same Doctrine with Sir K. Digby about the Memory, which was one with that of those Ancients. And there is little doubt but that the Memory is excited to Action by the like Instruments that the external Senfes are, confonantly to that of Plato in his Phado, (fpeaking of the Senses) "En TETOV & payvoito wingen, viz. That the Memory is begot of them : And the same Aristotle affirms almost in the same words, Ex was a Inorcis five as wifun, The Memory is begot out of the Sonfe. So that I think I am not mistaken in this matter; or if I am, Lerr with the great Body of his Sectators.

But whether the Doctrine of Intentional Species be Aristo-tle's, or not, 'tis no great matter, I make this no charge against him; And if it be not his, Itis however the common Tenent of his Schools, and so fit to be consider'd as an Hypothesis, which I have done, and shewn it to be an insuffici-

ent account of the Memory.

To the Difficulty I propose about the Formation of Animals, our Author offers two Things; The first of them may deferve a word or two about it; In his own words 'tis thus express.

Conceive the first thus; Let's say the Seed of a Plant, or Animal, contains invisible parts of all the Animal's Members: These let's say supplyed with moisture increase, with some

flight mutation whereof the reason may be easily rendred for example that some parts dryer and harder, others are

more throughly water'd, and grow fost) and what great

'matter will be apprehended in the formation of living

chings?

You may remember Sir, that once, when you and I were talking of the wonderful discoveries of the Microscope, and the many compleat Animals it discloseth, which lay hid from our unaided fight, we fell thence into a discourse of the firange and incredible subtilty of Nature in forming so many distinct Parts, and Members, and Passages in those invisible Creatures; and of the grofness of our Senses in comparison of the fineness and tenuity of those works: I then made an offer to you of this Hypothesis of the Formation of Organical Bodies, which I exprest to this effect: That the Seeds of things are certain, and are the things themselves in little: having all that is in the compleated Body in smallest and invisible parts; and so generation is but accretion, and growth to greater bulk and confiltence. To this purpose our Author here speaks; and the Hypothesis receives probability, and advantage from the late discoveries of the ingenious Malpeghius, and Dr. Grew in his Anatomy of Plants: Nor is it unlikely but that Vegetables are folded up in their Seeds; and that their Vegetation is only the expanding and unfolding of them. But in Animals the thing is of more difficult conception, fince the immediate matter of many, if not of most, Generations is an homogeneous fluid. To which I know it will be faid, that the organiz'd Body is in it, though it be so small as to be invisible: But it is not yery probable, that an invisible Atome of a Creature should expand it self into the vastness of a Whale or Elephant; or that the Original Bodies of those immense Creatures, should be undecernable by the acutest fight, when the seminal Body (if I may fo call it) of very small Plants are plainly visible. And if this be so, that the Seed of Animals actually contains the formed Bodies of the Animals themselves, those little Bodies must either be supposed created by God, in the form and confistence in which they are, from the foundation of the World; or they are produc'd after, in an orderly course of Nature: If the former be faid, some will be apt to ask, Whether this will not destroy all Philosophy, being so immediate a recourse to Creation, and the infinite Power of God ? And the manner of those Formations is never the more intelligible

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for being refolv'd into the immediate efficiency of incomprehensible Power and Wisdom. But if they are produc'd in a natural way, we are then as much at a loss to find by what Agent, and what direction those Corpuscles are form'd, as we are to understand the way and manner of it in greater Bodies. Or, be they produc'd how they will, by Creation, or Nature, yet still the Trouble and Doubts will be as many and great in the conception of their growth to their visible Bulk, which we call their Generation: For still must be a Director of the Matter by which each part is increast, that must separate, dispose, guide, and proportion it so, as that no part may exceed, none may want: and so the Queries, and Difficulties, that concern the Generation of Organical Bodies, are unanswered notwithstanding this Hypothesis.

Our Author's fecond Solution concerns only the grofs and material Ingredients in the formation of Bodies, of which he pretends some account. But this is nothing at all to our bufiness, which was to enquire after the Principle of Direction of those various and methodical Motions that are requilite to the formation of an Animal, or other Organical Body. And the Chymical Processes, and Elementary Solutions of which he speaks p. 43. signifie no more to the Matter, than if a Man. should answer an enquiry about the Art and Method of the Motions of a Watch, by faying, They are perform'd by Steel, Iron, Brass, or Silver, wherein the Matter of the Work in-

deed is declar'd, but not the Artifice.

The Learned Man comes next to the Solution of two difficulties I propose about Matter, the Union of its Parts, and the composition of Quantity, p. 45. His answer in short is, That there are no actual parts in quantity before division: Which if it be so indeed, there is then no ground for the Questions how they are united; or of what compounded. But I shall shew; 1. That there are actual Parts; and, 2. That the Grounds of

the contrary Assertion are weak and insufficient.

1. The formal nature of Quantity is Extention, in the Notion of Aristotle's Schools; and divisibility in the Philosophy of Sir K. Digby, and our Author; both which suppose parts, and parts actual: for to be extended, is to have partes extra partes (as the School Phrase is); and if the Extension be actu-· Com

al.

al, the Parts must be so: for it is not conceivable how a thing can be extended but by parts, which are really diffinet from one another, though not separate: Nor can a thing be divided, except we suppose the Parts preexistent in the divitible; for Divisibility is founded upon real distinction, and 'tis imposfible to divide that which is one without any diversity. (2.) Except there are parts in Matter before Division, there are none at all: For after they are divided they are no parts, but have a compleatness and integrality of their own, especially if their Subject were an Homogeneous Body. (3.) If there are not actual Parts in Quantity, Contradictions may be verified de eodem in all the Circumstances, which the Metaphysicks teach to be impossible: For the same Body may be seen, and not feen, black and white, hot and cold, moist and dry, and have all other the most contrary Qualities. To this Sir K. Digby answers, for That it is not one part of the thing that hews it felf, and another that doth not, one that is hot, and another cold, &c. But it is the same thing, shewing it self "according to one possibility of Division, and not another.] To this I say first, These distinct Possibilities are founded upon distinct Actualities, which are the parts I would have acknowledg'd: and fuch a capacity of receiving things so different cannot be in the same Subject without the supposal of parts actually distinct and divers. 2. The Subjects of these contrary Qualities are things actual, whereas Possibilities are but Metaphysical Notions; and these Subjects are distinct, or Contradictions will be reconcil'd: from which the Inference feems necessary, that Quantity hath Parts, and Parts Actual: and distinct Possibilities will not salve the Business. And, 3. why must the common Speech of all Mankind be altered? and what all the World calls Parts be call'd Possibilities of Division? Which yet, if our Philosopher will needs name so. they be acknowledg'd distinct, and prov'd actual, or at least founded immediately upon things that are fo; my Questions will as well proceed this way as in the common one, viz. How the things that answer to these distinct Possibilities are united, and of what compounded?

There is another Answer which I find in our Author's Peripatetical Institutions; the sum of which is, ['That the

*Contradictions have only a notional repugnance in the Subject as 'tis in our Understandings; and since the parts have a
distinct Being in our understanding, from thence 'tis that
they are capable to sustain Contradictions]. Which answer,
if I understand, I have reason to wonder at, for certainly the
Subject sustains the Contradictories as it is in re; and I never
heard of a Notion, black or white, but or cold, but in a Metaphor: 'Tis the real Substance is the Subject of these Contrarieties, which were impossible, if it had not divers Realities
answering to the Qualities that so denominate: and therefore
'tis not the Understanding that makes the divers Subjects of
these Accidents, as our Author suggests: but their being such
is the ground that we so apprehend them. This I 'think is
enough to shew that there are assual Parts in Quantity. To
which I must add,

(2.) That the Grounds of Sir K. Digby, and our Author, on which they build their Paradox, are insufficient. The Reasons are; *. Quantity is Divisibility; *. Divisibility is Capacity of Division; *. What is only capable of division, is not actually divided; *. Quantity is not actually divided, and

therefore hath no parts actual. To which I fay,

(1.) That Quantity is divisibility, is presumed; but extension is before it, in Nature, and our Conception; and it is the receiv'd Notion, though I think Impenitrability is the truest. (2.) Division supposeth Union, and Union parts united. (3.) What is only capable of Division in a mechanical Sense, may, and ought to be divided in a Metaphysical: That is, they ought to be divers in their Being, before they can be separated, and distinct in their Quantity; for Separability must

suppose Diversity.

But, (2.) It is pleaded against Adual Parts in Quantity; that if we admit them, we cannot stop till we come down to Indivisibles; of which to suppose Quantity compounded, is said to be absurd and impossible. In answer to which, I grant the Inserence, and have acknowledg'd the Hypothesis of Indivisibles to be full of seeming Inconsistencies, as is the other also: and therefore I reckon both among the things that are unconceivable: of which there can be no greater Argument, than their having driven such great and sagacious wits upon

an Affertion, that is contrary to our Senses, and the apprehension of all the World: That there are no parts in Quantity. And, (2.) 'Tis no good method of reasoning to deny what is plain and obvious, because we cannot conceive what is abstruse and difficult: To say that Quantity hath no actual Parts, contrary to the suffrage and senses of Mankind, because we cannot untie the Difficulties that arile from its being com-

pounded of Indivisibles, a nice and intricate Theory.

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Sir, I crave your pardon for this Spinose and dry Discourse, which I could not well avoid, it being one of the main things. of Sir K. Digby's and Mr. White's Philosophy, and pretended by the latter, as such a Solution of the Doubts I propounded, as renders them scarce any Difficulties at all: For the other things he objects, they are smaller Matters; and if you have leisure for fuch Trifles, I refer you to the discussion of them in my larger Answer, annext to my Scepsis Scientifica: in which al-To you will find what concerns his justification of Aristotle and his Philosophy.

I am, Sir,

Your affectionate Friend-

and Servant,

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Useful Knowledge.

Otwithstanding the shew of Science that the World of Books makes, it must be confest by considerate Men, that Knowledge is capable of far greater Heights and Improvements, than it hath yet attain'd; and there is nothing hath stinted its Growth, and hindred its Improvements more, than an over-fond, superstitious Opinion of Aristotle, and the Ancients, by which it is prefumed that their Books are the Ne Ultra's of Learning, and that little or nothing can be added to their discoveries: So that hereby a stop hath been put upon Inquiry, and Men have contented themselves with studying their Writings, and disputing about their Opinions, while they have not taken much notice of the great Book of Nature, or used any likely Endeavours for further acquaintance with it. This, whoever will confider, and speak impartially, must confess: and yet in spight of the evil Influence of this Humour, there have been fome in all Ages, who have freely fearch'd into the Creatures of God as they are in bis World, without vainly spending of their time in playing with those Images of them that the phansies of Men have fram'd in theirs. And perhaps no Age hath been more happy in liberty of Enquiry, than this, in which: which it hath pleased God to excite a very vigorous and active Spirit for the advancement of real and useful Learning. This every sensible Man should strive, as he is able, to promote: and I shall now endeavour, as far as my weakness will permit, to raise the capable and ingenious, from a dull and drousie acquiescence in the discoveries of former times, to a noble vigour in the pursuits of Knowleg: And this I shall do, by reprefenting the Incouragements we have to proceed, from the Helps and Advantages we enjoy, beyond those of remote Antiquity. In order to this I consider,

Hat there are Two chief ways whereby Knowledg may be A advanced, viz. (1.) By inlarging the HISTORY of Things: And (2.) By improving INTERCOURSE and COMMUNICATIONS.

The History of Nature is to be augmented, either by an investigation of the Springs of Natural Motions, or fuller Accounts of the groffer and more palpable Phenomena. For the searching out the beginnings and depths of Things, and discovering the Intrigues of remoter Nature, there are THREE remarkable ARTS, and multitudes of excellent IN-STRUMENTS, which are great Advantages to these later Ages; but were either not at at all known, or but imperfeally, by Aristotle and the Ancients.

The ARTS in which I instance, are Chymistry, Anatomy, and the Wathematicks: The INSTRUMENTS. fuch as the Wicrolcope, Telefcope, Thermometer, Barometer, and the Bir Dump : Some of which were first Invented, all of them exceedingly Improved by the ROYAL

SOCIETY.

To begin with the Consideration of the ARTS mentioned, I observe, That these were very little cultivated or used in Aristotle's Times, or in thase following ones in which his Philosophy did most obtain. TEN SYLVEN OUT TO A LITTLE OF THE

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For the FIRST, CHYMISTRY, it hath indeed a pretence to the great Hermes for its Author (how truly, I will not dispute): From bim 'tis said to have come to the Ægyptians, and from them to the Arabians: Among thefe it was infinitely mingled with vanity and Superstitious Devices: But not at all in use with Aristotle and his Sectators. Nor doth it appear, that the Grecians, or the disputing Ages, were conversant in these useful and luciferous Processes, by which Nature is unwound, and refolv'd into the Rudiments of its Composition; and by the violence of those Fires it is made confess those latent parts, which, upon less provocation, it would not disclose. Now, as we cannot understand the frame of a Watch, without taking it into pieces; so neither can Nature be well known, without a refolution of it into its beginnings, which certainly may be best of all done by Chymical Methods: By those Enquiries wonderful discoveries are made of their Natures; and Experiments are found out, which are not only full of pleasant surprise and information, but of valuable use, especially in the Practice of Physick; For It directs Medicines less loathsome and far more vigorous, and freeth the Spirits, and purer parts, from the clogging and noxious Appendices of groffer Matter, which not only hinder and difable the Operation, but leave hurtful Dregs in the Body behind them. I confess, that among the Ægyptians and Arabians, the Paracelfians, and some other Moderns, Chymistry was very phantastick; unintelligible, and delusive; and the boasts, vanity, and canting of those Spagyrists, brought a scandal upon the Art, and exposed it to suspicion and contempt: but its late Cultivators, and particularly the ROYAL SOCIE-TY, have refin'd it from its drofs, and made it bonest, sober, and intelligible, an excellent Interpreter to Philosophy, and help to common Life. For they have laid afide the Chrysopoietick, the delusory Designs, and vain Transmutations, the Rosiecrucian Vapours, Magical Charms, and Superstitious Suggestions, and form'd it into an Instrument, to know the Depths. and Efficacies of Nature. And this is no small advantage that we have above the old Philosophers of the Notional Way. And we have another, II. In.

(II.) In the Study, Use, and vast Improvements of ANA-TO MY, which we find as needful to be known among us, as 'tis wonderful 'twas known so little among the Ancients, whom a fond Superstition deterr'd from Dissections. For the Anatomizing the Bodies of Men was counted barbarous and inhumane in elder Times: And I observe from a Learned Man of our own, That the Romans held it unlawfal to look on the En-Tettullian severely censures an inquisitive Physician of his time for this practice, saying, That be bated Man. that he might know him. Yea, one of the Popes (I take 'twas Boniface 8.) threatens to Excommunicate those, that should do any thing of this (then) abominable nature. And Democritus was fain to excuse his Dissection of Beasts, even to the great Hippocrates. Nor does it appear by anything extant in the Writings of Galen, that that other Father of Phylicians ever made any Anatomy of humane Bodies. Thus shie and unacquainted was Antiquity with this excellent Art, which is one of the most useful in humane Life, and tends mightily to the eviscerating of Nature, and disclosure of the Springs of its Motion. But now in these later Ages, Anatomy hath been a free and general Practice; and particularly in this, It hath received wonderful Improvements from the Endeavours of several worthy Inquisitors, some of them Ingenious Members of the ROYAL SOCIETY, as Sir George Ent, Dr. Gliffon, and Dr. Willis. I instance in the most remarkable of their Discoveries briefly; And those I take notice of are, The Valves of the Veins, discover'd by Fabricius ab Aquapendente; The Valve at the entrance of the gut Colon, found, as is generally thought, by Bauhinus; The Milkie Veins of the Mesentery, by Asellius; The Receptacle of the Chyle, by Pecquet; The Ducius Virsungianus, by 70. George Wirsung of Padua; The Lymphatick Vessels, by Dr. Foliffe, Bartholin, and Olaus Rudbeck; The internal Ducius Salivaris in the Maxillary Glandule, by Dr. Wharton, and Dr. Gliffon; The external Duclius Salivaris in the conglomerated Parotis, The Ductus of the Cheek, The Glandules under the Tongue, Nose, and Palate, The Veffels in the nameless Glandule of the Eye, and the Tear-Glandule, by Nich. Steno; A new Artery, called Arterea Bronchialis, by Fred. Ruysch. I add, the Origination of those Nerves, which

were of old supposed to arise out of the substance of the Brain. but are found by late Anatomists to proceed from the Medulla Oblongata. And though the Succus Nutritius be not yet fully agreed upon by Physicians, yet it hath so much to say for it felf, that it may not unreasonably be mentioned among the New Inventions.

But of all the Modern Discoveries, Wit and Industry have made in the Oeconomy of Humane Nature, the noblest is that of the Circulation of the Blood, which was the Invention of our deservedly-famous Harvey. 'Tis true, the envy of malicions Contemporaries, would have robb'd him of the glory of this Discovery, and pretend it was known to Hippocrates, Plato, Aristotle, and others among the Ancients: But whoever confiders the Expressions of those Authors, which are faid to respect the Circulation, will find, that those who form the Inference, do it by a faculty that makes all kind of Compositions and Deductions, and the same that affifts the Enthusiasts of our days, to see so clearly all our Alterations of State and Religion, to the minutest Particulars, in the Revelation of St. Fohn. And perhaps it may be as well concluded from the first Chapter of Genesis, as from the Remains of those Ancients; who, if they had known this great and general Theory, how chance they spake no more of a thing, which no doubt they had frequent occasions to mention? How came it to be lost without memory among their Followers, who were such Superstitious porers upon their Writings? How chance it was not shewn to be lodg'd in those Authors, before the days of Dr. Harvy, when Eury had impregnated and determined the Imaginations of those, who were not willing any thing should be found anew, of which themselves were not the Inventors? . But 'tis not only the remotest Ancients, whom time hath consecrated, and distance made venerable, whose Ashes those fond Men would honour with this Discovery: But even much later Authors have had the Glory fastned upon them. For the Invention is by some ascribed to Paulus Venetus; by others, to Profeer Alpinus; and a third fort give it to Andreas Casalpinus. For these, though either of them should be acknowledged to be the Author, it will make as much for the defign of my Discourse, as if Harvy had the credit; and

therefore here I am no otherwise concerned, but to have Juflice for that Excellent Man: And the World hath now done right to his Memory, Death having overcome that Envy which dog's living Virtue to the Grave; and his Name rests quietly in the Arms of Glory, while the Pretensions of his Rivals are creeping into darkness and oblivion.

Thus, I have done with the Instances of Anatomical Advancements, unless I should hitherto refer the late Noble Experiment of Transfusion of the Blood from one living Animal into another, which I think very fit to be mention'd; and I suppose its not improper for this place: Or however, I shall rather venture the danger of impropriety and misslacing, than omit the taking notice of so excellent a Discovery, which no doubt suture Ingenuity and Practice, will improve to purposes not yet thought of; and we have very great likelyhood of

Advantages from it in present prospect.

For it is concluded, That the greatest part of our Diseases arise either from the scarcity, or malignant temper and corruption of our Blood; in which cases Transfusion is an obvious Remedy; and in the way of this Operation, the peccant Blood may be drawn out; without the danger of too much enfeebling Nature, which is the grand inconvenience of meer Phlebotomies. So that this Experiment may be of excellent use, when Custom and Acquaintance have hardned Men to permit the Practice, in Pleurifies, Cancers, Leprofies, Madness, Ulcers, Small-Pox, Dotage, and all fuch-like Distempers. And I know not why that of injecting prepared Medicines immediately into the Blood, may not be better and more efficacious, than the ordinary course of Practice: Since this will prevent all the danger of frustration from the loathings of the Stomach, and the disabling, clogging mixtures and alterations they meet with there, and in the Intestines, in which no doubt much of the Spirit and Virtue is loft. But in the way of immediate injeclion, they are kept intire, all those inconveniences are avoided, and the Operation is like to be more speedy and successful. Both these noble Experiments are the late Inventions of the ROYAL SOCIETY, who have attested the reality of the former, that of Transfusion of Blood, by numerous Tryals.

on several sorts of brute Animals. Indeed the French made the Experiment first upon humane Bodies, of which we have a good account from Monsieur Deunis: But it hath also since been practiced with fair and encouraging success, by our Philosophical Society. The other of Injection, if it may be mentioned as a different Invention, was also the product of the same Generous Inventors; though indeed more forward Foreigners have endeavoured to usurp the credit of both. This latter likewise hath succeeded to considerable good effects, in some new Tryals that have been made of it in Dantzick, as appears in a Letter written from Dr. Fabritius of that City, and printed in the Philosophical Transactions.

I proceed now to my THIR D Instance of ARTS, (if I may take leave to use the word in this large sense) which are Advantages for deep search into Nature, and have been considerably advanc'd by the Industry and culture of late Times, above their ancient Stature. And the Instance was,

(III.) The MATHEMATICKS. That these are mighty helps to Practical and Ufeful Knowledge, will be eafily confest by all, that have not so much ignorance as to render them incapable of information in these Matters: The Learned Gerard Vossius hath proved it by induction in Particulars: And yet it must be acknowledged, that Aristotle, and the disputing Philosophers of his School, were not much addicted to those noble Inquisitions: For Proclus the Commentator upon Euclide, though he gives a very particular Catalogue of the Elder Mathematicians, yet hath not mentioned Aristotle in that number: And though Diogenes Laertins takes notice of a Book he inscribed Μαθηματικόν, another, Περλ μωνάδι (3), and a Third, yet extant, Περλ άτοπων γραμμών: Yet it appears not that these were things of very great value; and Aristotle's Metaphysical procedure, even in Physical Theories, the genius and bumour of his Principles, and the airy contentions of his Sect, are great prefumptions that this Philosopher was not very Mathematical: And his numerous succeeding Followers, were certainly very little conversant in those Studies. I have elsewhere taken notice, that there is more publish'd by those Disputing L 2

Disputing Men on some trisling Question about ens Rationis, and their Materia prima than hath been written by their whole number upon all the useful parts of Mathematicks and Mechanicks. It would require much skill in those Sciences, to draw up the full History of their Advancements; I hear a very accurate Mathematician is upon it: And yet to fill up my Method, I'l adventure at some impersect Suggestions about the Inventions and Improvements of this kind: And I begin,

(I.) With Arithmetick, which is the Handmaid to all the other parts of Mathematicks. This indeed Pythagoras is faid to have brought from the Phanicians to the Gracians: but we hear no great matter of it till the days of Euclide; not the Euclide that was the Contemporary of Plato, and Hearer of Socrates; but the famed Mathematician of that Name, who was after Aristotle, and at 90 years distance from the former. This is the first Person among the Ancients, that is recorded by the exact Vossius to have done any thing accurately in that Science. After him it was advanced by Diophantus, methodized by Psellus, illustrated among the Latins by L. Apuleius; and in later times much promoted by Gardan, Gemma Frisius, Ramus, Clavius, and divers more modern Artists; among whom I more especially take notice of that Ingenious Scotchman the Lord Napier,

Who invented the Logarithms, which is a way of computing by Artificial Numbers, and avoiding the tadium of Multiplication and Division. For by this Method all those Operations are performed by Addition and Substraction, which in Natural Numbers were to be done those longer ways. This Invention is of great use in Astronomical Calculations, and it may be applied also to other Accompts. Besides this, the same Learned Lord sound an easie, certain, and compendious way of Accounting by Sticks, called Rabdology; as also Computation by Napier's Bones: Both these have been brought to greater perfection by others, since their first Discovery; particularly by Ursinus and Kepler.

To them I add the Decimal Arithmetick, which avoids the redious way of computing by Vulgar Fractions in ordinary Ac-

compts,

compts, and Sexagenaries in Astronomy; exceedingly and lately improved by our famous Oughtred, and Dr. Wallis a Member of the ROYAL SOCIETY. If I should here subjoin the Helps this Art hath had from the Works and Endeavours of Anotolius, Barlaam, Maximus Planudes, N. morarius, Florentinus Bredonus, Pisanus, Orontius; and in this Age, from those of Adrianus Romanus, Henischius, Cataldus, Malapartius, Keplerus, Briggius, Crugerus, and a vast number reckon'd up by Vossius, I should be tedious on this Head; and therefore I pass lightly over it, and proceed,

- (II.) To Algebra, of universal use in all the Mathematical Sciences, in Common Accompts, in Altronomy, in taking Distances and Alitudes, in measuring plain and solid Bodies, and other useful Operations. The first noted Author in this Method was Diophantus, who lived long fince the times of Aristotle. He, and those other Ancients that used it, performed their Algebraical Operations by Signs and Characters suted to the several Numbers, and Powers of Numbers, which they had occasion to use in solving Problems: But the later Mathematicians have found a far more neat and easie way, viz. by the Letters of the Alphabet, by which we can folve divers Prcblems that were too hard for the Ancients, as far as can be difcovered by any of their remaining Works. For there were many affected Auguations (as they call them) that did not equally ascend in the Scale of Powers, that could not be solv'd by the elder Methods; whereas the acute Vieta, a Mathematician of this last Age, affirms, he could resolve any Problem by his own Improvements. Besides him, our excellent Oughtred another, lately mentioned, did much in this way. But Des-Cartes hath out-done both former and later Times, and carried Algebra to that height, that some considering Men think Humane Wit cannot advance it further. I will not fay, so much; but no doubt he hath performed in it things deserving much acknowledgment, of which we shall hear more in another place. But I proceed,
- (III.) To the Consideration of Geometry, which is so fundamentally useful a Science, that without it we cannot well under-

understand the Artifice of the Omniscient Architect in the composure of the great World, and our selves. OEO'S FEQ-METPE'I, was the excellent faying of Plato; and the Universe must be known by the Art whereby it was made. So that what Galileo notes of Aristotle, is a great fign of his defects, viz. That he reprehended his Venerable Master for his Geometrical Sublimities, accusing him that he receded from the folid Methods of Philosophizing, through his too much indulging that Study; Which is so far from being likely, that Geometry is little less than necessary to solid and real Philosophy. An d therefore Plato admitted none to his School, but those that were acquainted with that Science: Which practice the mentioned excellent Modern, notes to be directly opposite to the Peripatetick Genius; and some he knew great Men of that way, dehorted their Disciples from it; which he introduceth one applauding as a wife Counfel, fince Geometry would detect and shame the futilities of that Notional way. But not to take too large a compass, this is certain, That Geometry is a most useful and proper Help in the Affairs of Philosophy and Life. 'Tis almost as clear from those former intimations, that Aristotle was not much enclined that way; and we know that his late Sectators, have very seldome applied themselves to Geometrical Disquisitions.

The Result of which is, We must expect the Advantages of this Science, from the declining of his and their Empire; and I need not say expect it, they are both in present view. And if after this any do require accounts of the Improvements Geometry hath received, since the soundation of that Tyranny by the Man of STAGTRA, I shall offer the best I have; and though I am conscious that they will be scant and defective,

yet I hope sufficient for my present purpose.

I note then from the celebrated Vossius, That Euclide was the first that brought Geometry into a Method, and more accurately demonstrated those Principles, which before were scattered among the Greeks and Ægyptians, and not so cogently or carefully proved. And Proclus reckons this famous Man as the Compiler and Demonstrator, not as the Inventor of the Elements; and two of these Books (viz. 14, & 15.) are ascribed to Apollonius Pergans, who was his nearest Successor in

Fame for Mathematical Abilities. This Geometrician improved the Science by four Books of Conicks, publish'd of old; and three more have been lately (in the year 1661.) translated out of an Arabick Manuscript in the Duke of Tuscany's Library, and are now abroad. This Manuscript - Facob Golius procured out of the East. Besides which, this Magnus Geometra. as he was called, illustrated Euclide by his Learned Commentary upon him. But Archimedes of Syracuse, was a Person of the greatest renown for Geometrical and Mechanical Performances; concerning which, Polybins, Valerius, Plutarch, Livy, and others, have recorded prodigious things: This great Wit carried Geometry from general and idle Speculation. to the use and benefit of Mankind; whereas before him it was an ancient and perverse Opinion, That this Knowledge ought not to be brought down to vulgar Service, but kept up in abstractive Contemplations: upon which score Archytas and Eudoxus, those great Geometricians before Euclide, were scared from the Mechanical and Organical Methods, to the great hinderance of beneficial Improvements in that way. But the excellent Syracusian understood, that this Science is not debased, but promoted and advanced by fuch Accommodations; and evinc'd the usefulness and excellency of Geometry, in his admirable Paradox proposed before King Hieron (Datis viribus datum pondus willere) [Δòs μòι πε sa vì κινήσω τίω γίω]. This Mathematician flourish'd 160 years after the time of Aristotle, who hath the name of the most Ancient that writ in Mechanicks, though that Book of his be not mentioned, either by Archimedes, Athenaus, Hero, or Pappus, Mechanical Authors; and Cardan and Patricius affirm that Work to be none of Aristotl's: Whose ever it was, the Performance hath praise from the Learned, as explaining the general Canses of Mechanical. Geometry. But Archimedes was more practical and particular: And though Plutarch in the Life of Marcellus affirms he writ nothing; yet the contrary is abundantly proved by Gerard Vossius, who hath shewn that the Books extant under his Name, that contain so many great Maxims of Mechanicks, are genuine; and both Strabo and Pappus mention them as bis. The Defign of Archimedes, of combining Mechanism and Geometrick Theory, was after happily promoted by Hero the. Elder

Elder of Alexandria, who invented those ingenuous Automata, that move by Air and Wires; concerning which he writ a Book that was Translated by Fredericus Commandinus, as also he did another De Machinis Bellicis, by which he well improved Geometrick Mechanicks: And Pappus particularly celebrates his exactness in solving the Deliaick Problem, De Cubo duplicando, acknowledging that he took most of his own Accounts about that Matter, from that exquisite Man. Next him, I mention Theodofius of Tripoli, who very much improved Geometry by his three Books De Figura Spharica, which afforded great affiftance to Ptolomy, Pappus, Proclus, and Theon, in their Mathematical Endeavours. Menelaus also, who lived in Trajan's time, contributed very much to the perfeding the Doctrine of Sphericks, as Vitellio well knew, who was famous for those things which he borrowed from that Author. The Performances also of Ctesibius, who lived in the time of Ptolomeus Phylcon, are much celebrated by Pliny. He invented many things in Hydraulicks, and according to Atheneus, he was the first Contriver of Musical Organs. These were Mechanical: but Geminus Rhodius the Master of Proclus Lycius, applyed Logick to Geometry, out of particular Elements abstracting Universals. He demonstrated, That there are only Three similar Species of all Lines, viz. Right, Circular, and Cylindrical: And Perseus following his steps, enrich'd Geometry with the Invention of three kinds of Crooked Lines, the Parabole, Hyperbole, and Elipsis; for which he express'd his extatick joy, as Thales, Pythagorus, and Archimedes did upon like occasions, in a Sacrifice to the Gods. But to be briefer, Pappus improved the Spharicks; Theon more methodically digested the Elements of Euclide; Serenus Antinsenfis discover'd, that the Section of a right Cylindre, is the same with the Elipsis of a right Cone; Copernicus improved the Do-Elrine of Triangles; Ramus corrected and Supplied Euclide, where his Principles were defective; Maurolicus writ first of Secant Lines; Clavius much illustrated and promoted the Do-Strine of Tangents, Secants, Triangles, Right Lines, and Spharicks, besides what he did in his Comment upon Euclide. I might mention with These, the worthy Performances of Cusanus, Pitiscus, Snellius, Ambrosius Rhodius, Kepler, Franciscus

Franciscus à Schoten, and others, who contributed very eminently to the Perfections and Advancements of Geometry, and were late Men.

But none have done in it like the Excellent Persons whom I reserve for my last mention; The chief are, Vieta, Des-Cartes,

and Dr. Wallis.

To my account of whose Performances, I must premise, That no great things can be done in Geometry, without the Analytical Method; And though some Learned Men conceive the Ancients were acquainted with this way of resolving Problems, yet their skill in it went no higher than the Quadratick Order of Equations, which They demonstrated by Circles and Right Lines, which They call'd Loca Plana: but they were able to do nothing in the Cubical Equations, or any of the Superiour Orders; though they endeavour'd to cover their defects in this Art, by recourse ad Locos Solidos, (viz. Conick Sections) and Lineares, as they called them, such as the Helix, Conchoeides, and those of like nature. But those tortous and curved Lines being described Mechanically by Compound Motions, the Problems resolved by them, are performed Orga-

nically by the Hand and Eye, not Geometrically.

This was the State of the Analytick Art, as long as Learning flourish'd in Greece; when That was subdued by the Barbarians, their Learning with their Country passed to the Arabians, and also to the Persians, as we have it from Hottinger and Bullialdus: But these Successors of the Greeks did not advance their Learning beyond the imperfect Stature in which it was delivered to them. In that condition it remained till Cardan and Tartaglia, who made some small addition towards the perfection of it; For they gave some Rules for solving Cubical Æquations, which were certain in some cases, but not in all. Their Invention some other Mathematical Men endeavoured to advance, laying down Rules for folving some Cubick and Biquadratick Æquations; but could never find an universal way, that might reach all such: Yea indeed they utterly de-Spaired, and held it impossible. At length appears Vieta, who by inventing the Method of Extracting Roots in the most numerous Acquations, and by converting the Signs used by the Ancients into Letters, brought Algebra to a very great perfection, M

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as I have noted above; and by enriching the Analytical Art, by the Accessions of his Exigetice Numerola, and Logistice Speciosa, he hath contributed infinite helps to Geometry. After him, divers other Learned Men polisht and adorned his Difcourses; among whom I mention chiefly our Country-men Harriot and Oughtred, who altred Vieta's Notes to advantage, and invented Canons to direct our Operations in the Extracting of Roots, both in pure and adjected Equations.

But after these had thus improved the Analytick Art, and well affisted Geometry by it, Renatus Des-Cartes appears, who in a few Pages, opens a way to mighty Performances: He shews us how all the Problems of Geometry may be brought to fuch terms, that we shall need nothing to the Construction and Demonstration of them, but the knowledge of the length of certain right Lines; and that, as all the Operations of Arithmetick are performed by Addition, Subtraction, Multiplication, Division, and Extraction of Rocts (which is a species of Division). So in Geometry, for the preparation of Lines that they may be known, nothing needs more to be done, than that others be added to them, or subtracted from them; or if the Line be single, (which that it may be the better referred to Numbers, may be called Unity) and beside that, two other Lines, that a Fourth be found which shall have the same proportion to one of these Lines, that the other hath to Unity, which is the same with Multiplication; or else, that by them a Fourth be found, which may have the same proportion to one of them, which Unity hath to the other, which is the same with Division; or lastly, That there be found between Unity, and some other Right Line, two or more mean Proportionals, which is the same thing with the Extraction of Quadratick and Cubick Roots. And that he may justifie the introducing of Terms Arithmetical into Geometry, he observes, That the avoiding thereof was an occasion of much perplexity and obscurity. in the Geometry of the Ancients; of which he could give no other conjecture, but because they did not sufficiently understand the affinity and cognation of those Sciences. should intend an exact History of all his Performances, I must transcribe Him; for he hath said so much in little, that 'tis impossible to abridge those his close Composures. I shall therefore only hint some principal things referring to his Writings for the rest.

And I take notice first, That he hath proposed an Univer-(al Method for the Solution of all Problems; not only those propounded in Right Lines, Plains, and Solids: but also all that are made in Angles, a thing of most general Service in all parts of Mathematicks. By It he resolves the famous Proposition in Pappus, which was too hard for Euclide, Apollonius, and all the Ancients. He discourses the nature of crooked Lines, and shews which are fit to be used in Geometrical Demonstrations; Gives Rules for the place where to apply our selves in the Demonstration of any Problem; and tells us, That a Problem after it is brought to an Aquation, and reduced to its least terms. and the unknown Quantity is Quadratick, or of two Dimenfifions, that then it may be demonstrated by a Right Line and Circles: but if the Aquation, after it is reduced to its least Terms, leave the unknown Quantity, Cubick or Biquadratick, it must be demonstrated by some one of the Conick Sections. Whereas again, if after the Aguation reduced, the unknown Quantity remain of five or fix Dimensions, or more, in infinitum, then the Demonstration must be performed by Lines more and more compound, according to the degree of Composition in the unknown Quantity of the Æquation. But because the way by Lines is perplext and tedious, he gives Rules to reduce Aguations of many Dimensions, to fewer. He shews how to fill up Defects, when any Terms are wanting in the Equation; how to convert the falle Roots into true, to avoid Fractions, and to lessen Aguations. He hath demonstrated, by a Circle and Parabole, the famous Problems fo much agitated among the Ancients, viz. the Trifedion of an Angle, and the finding two mean Proportionals between two Lines given, with more brevity and expedition than any that went before him. And this shall suffice by way of intimation, concerning that Prince of Mathematicians and Philosophers.

Since him, others have improved this Method: Schotenius hath demonstrated the Loca Plana of Apollonius: Hadderius hath added Inventions of use and pleasant Speculation in his Tract of Reduction of Aguations. Florimundus de Beaune hath writ ingenious and profitable things, de Natura & Limi-

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tibus Aquationum. But 'twould be endless to attempt full Accounts of the Modern Advancements of this Science, or indeed those accessions of growth it hath had since Vieta. And whoever should go about it, must reckon to begin anew as soon as he hath finish'd what he intended, since Geometry is improving daily.

I shall therefore add no more here, but only do right to an excellent Person of our own Nation, Dr. Wallis, a Member of the ROYAL SOCIETY, to whom Geometry is exceedingly indebted for his rare Discoveries in that Science. Particularly, he hath propounded a Method for the measuring of all kind of crooked Lines, which is highly ingenious; and put an end to all suture Attempts about Squaring the Circle, which hath puzzled and befooled so many Mathematicians, that have spent their thoughts and time about it. This he hath brought to effect as it near as can be done, and shew'd the exact performance by rational Numbers impossible: He hath proposed excellent ways for the measuring all kinds of Plains, and all multangular and solid Bodies. But 'tis time now to proceed to the consideration of the next Mathematical Science, Viz.

(4.) Aftronomy, one of the grandest and most magnifique of all those that lie within the compass of Natural Inquiry. I shall not look back to its beginning among the Chaldrans, Ægyptians, and eldest Gracians, in which Times it was but rude and imperfect, in comparison to its modern Advancements. For the great Men among the Greeks are taken much notice of, but for very ordinary and trite things in this Science: As Anaximander Milesius, for teaching, That the Earth was Globous, and the Centre of the World not bigger than the Sun: Anaximines for affirming, That the Moon shone but with a borrowed Light; That the Sun and It were Eclips'd by the Earths interposal; and, That the Stars move round our Globe. And Pythagoras was the first that noted the obliquity of the Ecliptick. This Philosopher indeed was a Person of a vast reach, and faid things in Astronomy very agreeable to late Discoveries : But Aristotle made very odd Schemes, not at all corresponding with the Phanomena of the Heavens, as appears from his Hypotheles

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of Solid Orbs, Epicycles, Excentricks, Intelligences, and such other ill-contrived Phancies. Besides which, if I should descend to consider his now palpable Mistakes about the nature of Comets, the Galaxy, the Sphere of Fire under the Moon, and numerous other such, I should oblige my self to a large ramble. Wherefore to be brief in these Notes, I observe, That after Aristotle, Astronomy was cultivated and improved by Theophrastus, Aratus, Aristarchus Samius, Archimedes, Geminus, Menelaus, Theon, Hipparchus, Claudius Ptolomaus, and many others among the Greeks.

Among later Authors, considerable things have been done in this way by both Latins and Arabians: To omit the latter,

I shall give you some particular Instances of the other.

Johannes de Sacro Bosco, ingeniously and methodically explained the Doctrine of the Sphere: Thebit first found the Motion of Trepidation: Regiomontanus published the first Ephemerides: and did excellent things in his Theoricks of the Planets. Wernerus stated the greatest Declination of the Sun. Albertus Pighius directed the way to find Aquinoxes and Solstices: Baersius fram ed perpetual Tables of the Longitudes and Latitudes of the Planets: Copernicus restored the Hypothesis of Pythagorus and Philolaus, and gave far more nest and consistent Accounts of the Phanomena: Joachimus made Ephemerides according to the Copernican Doctrine: Clavius invented a most useful demonstrative Astrolabe, and writ an exquisite Comment upon Sacro Bosco.

But I conclude the last Century with the Noble Ticho Brahe, who performed the great Work of restoring the Fix'd Stars to their true places, the assignation of which before him, was rather by guess, than any competent Rules, and the mistakes here, were the very Root and Foundation of most Errors in Astronomy. For which reason it was, that Copernicus lest that earnest advice to his Scholar Joachimus, that he should apply himself to the restitution of the Fix'd Stars; for till this were done, there could be no hopes of attaining to the true places of the Planets, nor doing any thing to purpose in the whole Science. This ingaged the Noble Tycho to this Enterprise, and he made it the Foundation of all the rest: The Method he used is described by Gassendus. By the help of this noble Performance

he reformed the elder Astronomical Tables, both the Ptolomaick and Copernican. And from his Observations of the new Star. of 1572, and fix others in his time, he afferted Comets into their place among Heavenly Bodies, shattering all the Solid Orbs to pieces; And he hath done it with fuch clear conviction, that even the Fesuits, whose thraldom to the Church of Rome, deters them from closing with the Motion of Earth, confess a necessity of repairing to some other Hypothesis than that of Ptolomy, and Aristotle. I might add to this, That this generous Nobleman invented and framed such excellent Astronomical Instruments, as were for use and convenience far beyond any of former Times: Himself hath a Treatise concerning them. He hath also made exquisite Tables of the difference that Refractions make in the appearance of the Stars, and done more great things for Astronomical Improvement, than many Ages that were before him; for which reason I could not pardon my felf in a curt mention of fo glorious an Advancer of this Science.

The next Age after him, which is ours, hath made excellent use of his Discoveries, and those of his Elder, the famed Copernicus; and raised Astronomy to the noblest beight and Perfestion that ever yet it had among Men. It would take up a Volume to describe, as one ought, all the particular Discoveries: But my Defign will permit but a short mention: Therefore briefly; I begin with Galilao, the reputed Author of the famous Telescope; but indeed the glory of the first Invention of that excellent Tube, belongs to Facobus Meius of Amsterdam: but 'twas improved by the noble Galilao, and he first applied it to the Stars; by which incomparable Advantage, he discovered the Nature of the Galaxy, the 21 New Stars that compose the Nebulosa in the Head of Orion, the 36 that conspire to that other in Cancer, the Ansula Saturni, the Assecla of Jupiter, of whose Motions he composed an Ephemeris. By these Lunulæ'tis thought that Jupiters distance from the Earth may be determined, as also the distance of Meridians, which would be a thing of much use, since this hath always been measured by Lunar Eclipses, that happen but once or twice a year; whereas opportunities of Calculating by the occultations of these new Planets will be frequent, they recurring about

about 480 times in the year. Besides, (to hasten) Galileo discovered the strange Phases of Saturn, one while ob. long, and then round; the increment and decrement of Venus, like the Moon; the Spots in the Sun, and its Revolution upon its own Axis; the Moons libration, collected from the various position of its Macula; and divers other wonderful and useful Rarities, that were strangers to all Antiquity: Shortly after Galilao, appears Christopherus Scheiner, who by greater Telescopes viewed the Sun with a curled and unequal Superficies, and in or near the Horizon of an Elliptical Figure. He found alfo. That that supposed uniform Globe of Light, was of a different complexion in its feveral parts; some brighter than the main Body, as the Facula, others darker, as the Macula. He made more than 2000 Observations of them, and described their Number, Magnitude, Situation, Figure, and Revolutions. Kepler is next to be mention'd, who first proposed the Elliptical Hypothesis, made very accurate and luciferous Observations about the Motions of Mars, and writ an Epitome of the Copernican Astronomy, in the clearest and most persicuous Method, containing the Discoveries of others, and divers consisderable ones of his own; not to mention his Ephemerides, and Book about Cornets. Ant. Maria Shirlaus, with a new Telescope of a larger Diameter than ordinary, discovered five other Stars more remote from Jupiter than his Satellites, and a kind of vapid Atmosphere about that Planet. Franciscus Fontana: observed the same Star, with nine others, never leaving it more than ten of its Diameters; and in 1636, and 1643. with 8. Anno 1645. with 5, 1646. with 7. on other days with 6, varying their distances one to another, and not to be seen about Mars or Saturn, nor without extending the Telescope more than was fitting for Fix'd Stars. These Satellites are observed to suffer a defection of their Light, when Jupiter interposeth between them and the Sun; whence it is inferr'd, That they have their Light from It, and that Jupiter hath none of his own to impart to them. To be brief, Longomontanus described the World according to all the Hypotheses of Ptolomy, Copernicus, and Ticho Brahe: Fansonius Blaeu made far more perfect and exact Calestial Globes than any were extant before: Gassendus writ judiciously of the Stars about Jupiter, and of Mercury,

Mercury in the Sun, and gave the World most excellent Aftronomical Institutions: Ismael Bullialdus inrich'd the Science with a new Method, to find and eafily compute the Paralaxes of Solar Ellipses: Hevelius drew a Graphical Description of the Moon in all its Phases, as it appear'd in the Telescope, accurately delineating its Spots, and shewing the inequality and mountanous protuberances of its Surface, which lends Light to a great Theory. Both these last named are Fellows of the ROYAL SOCIETY. Of the Selenography of Hevelius. Ricciolus made an Improvement, both as to the Number. Figure, Magnitude, Site, Colour of the Macula, and the Eminencies, Profundities, and Asperities of the Lunar Superficies. Martinus Hortenfius found Mercury to have variety of Phases, like the Moon; as, now Horned, then Gibbons, and at other times Round. But I conclude this Account with the most Worthy and Learned Prelate Dr. Seth Ward, now Lord Bishop of Sarum, who among his other excellent Performances in Astronomy, hath demonstratively proved the Elliptical Hypothesis, which is the most plain and simple, and performed by fewer Operations than either of the other. This indeed was first discours'd of by Kepler, advanced by Bullialdus, but demonstrated by this accomplished and venerable Bishop, an Honourable Member of the ROYAL SOCIETY.

I come next (5.) To consider the Dyticks, whose Improvements are of great importance in the Matters of general Philosophy and humane Life; fince the informations of Sense are the ground of both, and this Science rectifies and helps the noblest of them. Concerning it, there was once a Book of Aristotle's extant, according to Laertius: but it hath submitto Time. Since him, this Science hath been cultivated by Euclide, and the celebrated Archimedes, who is said to have done strange things by it, upon the Ships of Marcellus: As Proclus who improved the Archimedian Artifices, destroyed a Fleet by his Specula Ultoria, that belieged Constantinople. Ptolomy of Alexandria made confiderable Improvements of Opticks; and Albazenus the Arabian, is famous for what he did in It. From thefe, Vitellio drew his, and advanced the Science by his own Wit, and their Helps. Stevinus corrected Euclide.

Euclide, Albazen, and Vitellio, in some fundamental Propofitions that were mistakes; and in their room substituted confiderable Inventions of his own. Roger Bacon our fam'd Country-man (whom Pieus Mirandula calls the Phanix of his Age, and Vossius, one Learned to a Miracle) writ acutely of Opticks. He was accused of Magick to Pope Clement iv. and thereupon imprisoned: But the Accusation was founded on nothing but his skill in Mathematicks, and the ignorance of his Accufers. After these, the Dioptricks were improved by Kepler, Gassendus. Mersennus, and the noble and incomparable Des-Cartes, who hath said the most clear, useful, and improvable things about it, that ever were extant on the Subject. But nothing hath so much advanc'd the Science, as the invention of the Telescope by Metius; and that other of the Microscope, concerning which I have to fay in the following Instances. pass therefore to the last I shall mention in the Mathematicks, which is.

(VI.) Geography. In this the Ancients were exceedingly defective. And Aristotle knew the World, by the same Figure by which his Scholar conquer'd it. 'Tis noted by the ingenious Varenius, that the most general and necessary things in this Science were then unknown; as, The Habitablenels of the Torrid Zone; The flux and reflux of the Sea; The diversity of Winds; The Polar Property of the Magnet; The true Dimension of the Earth. They wanted Descriptions of remote Countries, concerning which both the Greeks and Romans had very fabulous Relations. They knew not that the Earth was encompassed by the Sea, and that it might be Sailed round. They were totally ignorant of America, and both the North and South parts of this Hemisphere; yea, and understood very little of the remoter places of their own Asia: Fapan, the Fava's, the Philippicks, and Borneo, were either not at all known, or exceeding imperfectly of old: But all thefe are familiar to the latter Times: Mexico and Peru, and the vast Regions of those mighty Empires, with the many Isles of the Great Sea are disclosed: The Frozen North, the Torrid Line, and formerly unknown South, are visited, and by their numerous Inhabitants found not to be so inhospitable and unkind to Men, as Antiquity

quity believed. The Earth hath been rounded by Magellan, Drake, and Candish: The great Motion of the Sea is vulgar, and its Varieties inquiring into every day: The diversities of Winds stated, and better understood: The Treasure of hidden Vertues in the Loadstone found and used. The Spicy Islands of the East, as also those of the remote South and North, frequented, and the knowledge of that People and those Countries transmitted to us, with their Riches; The most distant Parts being travell'd and describ'd. Our Navigation is far greater, our Commerce is more general, our Charts more exact, our Globes more accurate, our Travels more remote, our Reports. more intelligent and sincere; and consequently our Geography. far more perfect, than it was in the elder Times of Polybius. and Possidonius, yea than in those of Ptolomy, Strabo, and Pomponius Mela, who lived among the Cafars. And if it was so short in the flourishing Times of the Roman Empire, how was it before in the days of Aristotle, and the Gracians? We have an Instance of it in the Great Macedonian, who thought the Bounds of his Conquests to be the end of the World; when there were Nations enough beyond him to have eaten up the Conqueror with his proud and triumpbant Armies. So that here also Modern Improvements have been great; and He will think fo, that shall compare the Geographical Performances of Gemma Frisius, Mercator, Ortelius, Stevinus, Bertius, and Guil. Blaen, with the best Remains of the most celebrated Geographers of the more ancient Ages.

Thus I have touched upon some of the Improvements of the ARTS that search into the recesses of Nature, with which latter Ages have assisted Philosophical Inquiries. And in these I see I have struck farther than I was aware into the account of those things also, which lead us to the grosser Phanomena; and my Remarques about Geography are all of that nature. However I shall not alter my Method; but after I have discours'd the Instruments I mentioned for Useful Knowledge, I shall consider somewhat of NATURAL HISTORY, which reports the Appearances, and is fundamentally necessary to all the Designs of Science. As for the INSTRUMENTS

then, that are next, before I come to the Notes I intend con-

cerning them, I observe, That

The Philosophy that must fignific either for Light or Use. must not be the work of the Mind turned in upon it self; and only converfing with its own Idaa's; but It must be raised from the Observations and Applications of Sense, and take its Accounts from Things as they are in the sensible World. The Illustrious Lord Bacon hath noted this as the chief cause of the unprofitableness of the former Methods of Knowledge. viz. That they were but the Exercises of the Mind, making Conclusions, and spinning out Notions from its own native Store; from which way of proceeding nothing but Dispute and Air could be expected. Twas the fault that Great Man found in the Ancients, That they flew presently to general Propositions, without staying for a due information from Particulars, and so gradually advancing to Axioms: Whereas the Knowledge, from which any thing is to be hoped, must be laid in Sense, and raised not only from some sew of its ordinary Informations; but Instances must be aggregated, compared, critically inspected, and examined; singly, and in consort: In order to which Performances our Senses must be aided; for of themselves they are too narrow for the vastness of things. and too short for deep Researches: They make us very defective and unaccurate Reports, and many times very deceitful and fallacious ones: I say therefore, they must be affished with Instruments, that may strengthen and rectifie their Operations. And in these we have mighty advantages over Aristotle and the Ancients; fo that much greater things may well be expected from our Philosophy, than could ever have been performed by theirs; though we should grant them all the superiority of Wit and Understanding their fondest Admirers would ascribe to those Sages: For a weak hand can move more weight by the help of Springs, Wheels, Leavers, and other Mechanick Powers, than the strongest could do without them: And that we really have these Advantages, must be shewn by Instance: I mentioned Five that are confiderable to that purpose, which I took notice of among many others; and they were the Aelescope, Dicroscope, Thermonister, Baronieter, and gir Bump.

(I.) The Telescope is the most excellent Invention that ever was, for affiffing the Eye in remote Discoveries. The distance of the Heavens is so vast, that our unaided Senses can give us but extreamly imperfect Informations of that Upper World; And the Speculations that Antiquity hath raised upon them, have for the most part been very mean, and very false: But these excellent Glasses bring the Stars nearer to us, and acquaint us better with the immense Territories of Light: They give us more Phanomena, and truer Accounts; disperse the shadows and vain Images of the twilight of naked Sense. and make us a clearer and larger prospect : By these Advantages they inlarge our Thoughts, and thew us a more magnificent Representation of the Universe: So that by them the Heavens are made more amply to declare the Glory of God, and we are help'd to nobler, and better-grounded Theories: I have mentioned in my Account of the Advance of Astronomy some of the most remarkable Discoveries that have been made by these Tubes, which exceedingly transcend all the Imaginations of elder Times; and by the further improvement of them, other things may be disclosed as much beyond all ours. And the present Philosophers are so far from desiring that Posterity should ht down contented with their Discoveries and Hypotheses, that they are continually follicitous for the gaining more belts to themselves, and these that shall follow, for a further progress into the knowledge of the Phanomena, and more certain judgments upon them. So that these Glasses are exceedingly bettered fince their Invention by Metius, and application to the Heavens by Galilao; and several ingenious Members of the ROYAL SOCIETY are now busic about improving them to a greater height: What success and informations we may expect from the Advancements of this Instrument, it would perhaps appear Romantick and ridiculous to fay: As, no doubt, to have talk'd of the Spots in the Sun, and vast inequalities in the Surface of the Moon, and those other Telescopical Certainties, before the Invention of that Glass, would have been thought phantastick and absurd: I dare not therefore mention our greatest bopes: but this I adventure, That: tis not unlikely but Posterity may by those Tubes, when they

are brought to higher degrees of perfection, find a sure way to determine those mighty Questions, Whether the Earth move? or, the Planets are inhabited? And who knoweth which way the Conclusions may fall? And 'tis probable enough, that another thing will at last be found out, in which this lower World is more immediately concerned, by Telescopical Observations, which is, the most desired Invention of Longitudes; upon which must needs ensue yet greater Improvements of Navigation, and perhaps the Discovery of the North-West Passage, and the yet unknown South: Whatever may be thought of these Expectations by vulgar and narrow Minds, whose Theories and Hopes are confined by their Senses, those that consider, that one Experiment discovered to us the vast America, will not despair. But 'tis time to pass from this, to a second Modern Aid, whereby our Sight is assisted, which is,

- (II.) The Dicroscope: The Secrets of Nature are not in the greater Masses, but in those little Threds and Springs, which are too subtile for the grosness of our unbelp'd Senses; and by this Instrument our eyes are affisted to look into the minutes and Subtilties of things, to discern the otherwise invisible Schematisms and Structures of Bodies, and have an advantage for the finding out of Original Motions; To perceive the exactness. and cariofity of Nature in all its Composures; And from thence take sensible Evidence of the Art and Wisdom that is in its Contrivance; To disclose the variety of living Creatures that are shut up from our bare Senses, and open a kind of other World unto us, which its littleness kept unknown: This Infrument hath been exceedingly improved of late, even to the magnifying of Objects many thousand times; and divers useful Theories have been found and explicated by the notices it hath afforded; as appears by the Microscopical Writings of Dr. Power and Mr. Hooke, Members of the ROYAL SOCIETY.
- But (III.) The Ehermometer was another Instrument I mentioned, which discovers all the small unperceivable variations in the heat or coldness of the Air, and exhibits many rare and luciferous Phenomena, which may help to better Insormations about those Qualities, than yet we have any. And as-

to this, I observe with the great Verulam, and the other Bacon the Illustrious Mr. Boyle, That Heat and Cold are the right and left hand of Nature: The former is the great Infrument of most of her Operations; and the other hath its Interest: And yet the Philosophy of Aristotle hath neither done, nor as much as attempted any thing toward the Discovery of their Natures; but contented it self with the jejune, vulgar, and general description, That Heat is a Quality that gathereth together things of a like nature, and severs those that are unlike; and Cold congregates both. But now if we will know any thing deeply in the business of Rarefaction and Condensation. the Doctrine of Meteors, and other material Affairs of Nature, other Accounts about these things must be endeavoured; and the bare informations of our Senses are not exact enough for this purpose; for their Reports in this kind are various and uncertain, according to the temper and disposition of our Bodies, and several unobserved accidental Mutations that happen in them. This Instrument therefore hath been invented to supply their Defects; and it gives far more constant and accurate. though perhaps not always infallible Relations: but the justest are afforded by the Sealed Thermometer. And belides the Ules of this Instrument I suggested, it will help very much in framing the History of Weather, which may be applied to many excellent Purposes of Philosophy, and Services of Life.

But (IV.) The Barometer is another late Instrument very helpful to Useful Knowledge: That there is gravity even in the Air it self, and that that Element is only comparatively light, is now made evident and palpable by Experience, though Aristotle and his Schools held a different Theory: And by the help of Quick-silver in a Tube, the way is found to measure all the degrees of Compression in the Atmosphere, and to estimate exactly any accession of weight, which the Air receives from Winds, Clouds, and Vapours: To have said in Elder Times, That Mankind should light upon an Invention whereby those Bodies might be weigh'd, would certainly have appeared very wild and extravagant; and it will be so accounted for some time yet, till Men have been longer, and are better acquainted with this Instrument: For we have no reason to believe it should have

have better luck than the Doctrine of the Circulation, the Theory of Antipodes, and all great Discoveries in their first Proposals: 'Tis impossible to perswade some of the Indians that live near the beats of the Line, that there is any such thing as Ice in the World; but if you talk to them of Water made bard and confiftent by Cold, they'l laugh at you as a notorious Romancer: And those will appear as ridiculous among the most of us, who shall affirm it possible to determine any thing of the meight of the Wind or Clouds: But Experience turns the laugh upon the confident incredulity of the Scoffer; and he that will not believe, needs no more for his conviction. than the labour of a Tryal; Let him then fill a Tube of Glass of some Feet in length with Quick-silver; and having sealed one end, let him stop the other with his Finger, and immerge that which is so stop'd into a Vessel of Mercury, the Tube being perpendicularly erected; let him then subtract his Finger, and he will perceive the Quick filver to descend from the Tube into the subjacent Vessel, till it comes to 29 Digits or thereabouts; there, after some Vibrations, it ordinarily rests: The reason that this remainder of the Mercury doth not descendalso, is, because such a Mercurial Cylinder is just equiponderant to one of the incumbent Atmosphere that leans upon the Quick-silver in the Veffel, and so binders a further descent. It is concluded therefore, That such a Cylinder of the Air as presseupon the Mercury in the Vessel, is of equal weight to about 29 Digits of that ponderous Body in the Tube. Thus it is when the Air is in its ordinary temper: But Vapours, Winds, and Clouds, alter the Standard, so that the Quick filver sometimes falls, sometimes rises in the Glass, proportionably to the greater or less accession of gravity and compression the Air hath received from any of those alterations; and the Degree of Increase beyond the Standard is the measure of the additional gravity. This Experiment was the Invention of Torricellius, and used to little more purpose at first, but to prove a Vacuum in Nature; and the deserted part of the Glass-Tube was by many thought an absolute void, which I believe is a mistake: But it hath been since improved to this design of weighing the degrees of compression in the Air; a thing that may signific much, in giving us to understand its temper in feveral !

several Places, on Hills and in Caves, in divers Regions and Climates, which may tend to the disclosing many excellent Theories and Helps in Humane Life. And the Air is fo Catholick a Body, and hath so great an influence upon all others, and upon ours, that the advantage of fuch an Instrument, for the better acquainting us with its nature, must needs be very considerable, and a good Aid to general Philosophy. And who yet knows how far, and to what Discoveries this Invention may be improved? The World a long time only rudely star'd upon the Wonders of the Loadstone, before its use was found for the advantage of Navigation; and 'tis not impossible, but that future Times may derive so much benefit one way or other from this Invention, as may equal its esteem to that of the Compals. The ROYAL SOCIETY, by their Care and Endeavours in the using this Instrument, give us hopes, that they will let none of its useful Applications to escape us: And I know not whether we may not mention it as the first great benefit we have from it, that it was an occasion of the Invention of Mr. Boyle's famous Pneumatick Engine: And this is the other Instrument I noted, and call'd

(V.) The Air Pump: concerning the usefulness of which, that excellent Person himself hath given the best Accounts. in his Discourse of Physico-Mechanical Experiments made in that Engine, by which he hath discovered and proved a rare and luciferous Theory, viz. the Elastick Power or Spring of the Air, and by this, hath put to flight that odd Phancy of the Fuga Vacui; and shewn, that the strange Effects which use to be ascribed to that general and obscure cause, do arise from the native self-expansion of the Air. The extent of which Elastical Expansion, he hath found divers ways to measure by his Engine, which also discovers the Influence the Air hath on Flame, Smoke, and Fire; That it hath none in Operations Magnetical; That it is probably much interspersed in the Pores of Water, and comprest by the incumbent Atmosphere, even in those close retreats; What Operation the exsuction of the Air hath on other Liquors, as Oil, Wine, Spirit of Vinegar, Milk, Eggs, Spirit of Urine, Solution of Tartar, and Spirit of Wine; The gravity and expansion of the Air under Water; The

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The interest the Air hath in the vibrations of Pendulums, and what it hath to do in the propagation of Sounds; That Fumes and Vapours ascend by reason of the gravity of the Ambient, and not from their own positive levity; The nature of Suction, the cause of Filtration, and the rising of Water in Siphons; The nature of Respiration, and the Lungs, illustrated by tryals made on several kinds of Animals, and the interest the Air hath in the Operations of Corofive Liquors: Thefe, and many more fuch-like beneficial Observations and Discoveries, hath that great Man made by the help of his Pneumatick Engine; and there is no doubt but more, and perhaps greater things will be disclosed by it, when future ingenuity and diligence hath improved and perfected this Invention. (For what great thing was absolute and perfect in its first rise and beginning?) And 'tis like this Instrument hereafter will be used and applyed to things yet unthought of, for the advancement of Knowledge, and the conveniences of Life.

THus I have performed the first part of my promise, by I shewing what Advantages the latter Ages, and particularly the ROYAL SOCIETY have, for deep fearch into things both by Arts and Instruments newly invented or improved, above those enjoy'd by Aristotle, and the Ancients. I am next.

(II.) To recount what Aids it hath received from our better acquaintance with the Phanomena. For this I must consider NATURAL HISTORY more particularly, which is the Repository wherein these are lodg'd: How this may be compiled in the best order, and to the best advantage, is most judiciously represented by the Immortal Lord Bacon; and to shew how highly It hath been advanced in modern Times; I need fay little more, than to amass, in a brief Recollection, some of the Instances of newly-discovered Phanomena, which are scatter'd under the Heads of the Arts and Instruments I have discours'd, with the Addition of some others: As,

In the HEAVENS, those of the Spots and Dinettick motion of the Sun, the mountanous protuberances and shadows

in the Body of the Moon, about nineteen Magnitudes more of. Fixed Stars, the Lunula of Jupiter, their mutual Eclipfing one another, and its turning round upon its own Axis; the Ring about Saturn, and its shadow upon the Body of that Star; the Phases of Venus, the increment and decrement of Light among the Planets, the appearing and disappearing of Fixed Stars, the Altitude of Comets, and nature of the Via Lattea: By these Discoveries, and more such, the History of the Heavens hath been redified, and augmented by the Modern Advancers of Astronomy, whom in their places I have cited. In the AIR; Its Spring, the more accurate History and Nature of Winds and Meteors, and the probable beight of the Atmosphere, have been added by the Lord Bacon, Des-Cartes, Mr. Boyle, and others. In the E ARTH, New Lands by Columbus, Magellan, and the rest of the Discoverers; and in these, new Plants, new Fruits, new Animals, new Minerals, and a kind of other World of Nature, from which this is supplied with numerous conveniences of Life, and many thousand Families of our own little one are continually fed and maintained. In the WATERS, the great Motion of the Sea, unknown in elder Times, and the particular Laws of flux and reflux in many places, are discover'd. The History of BATHES augmented by Savonarola, Baccius, and Blanchellus; of METALS by Agricola; and the whole SUB-TERRANEOUS WORLD described by the univerfally Learned Kircher. The History of PLANTS much improved by Matthiolus, Ruellius, Bauhinus, and Gerard, befides the late Account of English Vegetables publish'd by Dr. Merret, a worthy Member of the ROYAL SOCIE-TY. And another excellent Virtuofo of the same Assembly, Mr. John Evelyn, hath very confiderably advanced the History of Fruit and Forest-Trees, by his Sylva and Pomona; and greater things are expected from his Preparations for Elysium. Britanicum, a noble Design now under his hands: And certainly the inquisitive World is much indebted to this generous Gentleman for his very ingenious Performances in this kind, as also for those others of Sculpture, Picture, Architecture, and the like practical useful things with which he hath enrich'd it. The History of ANIMALS hath been much enlarged .

ged by Gefner, Rondeletius, Aldrovandus, and more accurately inquir'd into by the Micrographers: And the late Travellers, who have given us Accounts of those remote parts of the Earth, that have been less known to these, have described great variety of Living Creatures, very different from the Animals of the nearer Regions; among whom the ingenious Author of the History of the Caribbies deserves to be mentioned as an Instance. In our own BODIES Natural History hath found a rich heap of Materials in the above-mentioned Particulars of the Vene Lactee, the Vala Lymphatica, the Valves and Sinus of the Veins, the leveral new Passages and Glandules, the Ductus Chyliferus, the Origination of the Nerves, the Circulation of the Blood, and the rest. And all the main Heads of Natural History have receiv'd aids and increase from the famous Verulam, who led the way to substantial Wisdom, and hath given most excellent Directions for the Method of fuch an HISTORY of NATURE.

Thus I have dispatch'd the FIRST Part of my Method proposed in the beginning; but stand yet ingaged for the other. which is to thew.

(II.) That the later Ages have great Advantages, in respect of Opportunities and Helps for the freading, and communicating of Knowledge, and thereby of improving and enlarging it. This I shall demonstrate in three great Instances, viz. Printing, the Compass, and the Institution of the Kopal Society.

For the FIRST, Printing; It was, according to Polydore Virgil, the Invention of John Cuthenberg of Mentz in Germany, though others give the honour to one Fust of the same City, and some to Laurentius a Burger of Harlem. But whoever was the Author, this is agreed, That this excellent Art was first practised about the year 1440, and was utterly unknown in Elder Times; at least in all the parts of the World that are on this side the Kingdom of China, which they say had it more early; but it signifies not to our purpose. Now by reason of the Ancients want of this Invention, Copies

of excellent things could not be fo much dispersed, nor so well preserv'd either from the Corruptions of Time, and Interest. The Charge of Books was very great, Forgeries frequent, and Mistakes of Transcribers numerous: They were quickly swept away out of those few Libraries in which they were, by Fire and Violence, or spoiled by Dust and Rottenness. And in the absence of this Art, 'twas easie enough for one Aristotle to dethrow the most considerable Remains of the Ancients, that the power of his great Scholar put into his hands; which, 'tis credibly reported of him, that he did, to procure more fame for his own Performances: as also to conceal his thefts, and injurious dealings with those venerable Sages, whom he seems to take a great delight to contradict and expose, as I have elsewhere proved. But now, by this excellent Invention, the Knowledge that is lodged in Books, is put beyond the danger of fuch Corruptions, Forgeries, or any fatal inconvenience: We communicate upon easie terms at the remotest distance; converse with the Wise Men that went before us, and securely convey down our Conceptions to the Ages that shall follow. So that by this means Knowledge is advantagiously spread and improved; especially fince the Assistance Modern Ingenuity hath brought us, in that other admirable Invention,

(2.) The Compass. How defective the Art of Navigation was in elder Times, when they failed by the observation of the Stars, is easie to be imagin'd: For in dark weather, when their Pleiades, Helice, and Cynosura were hidden from them by the intervening Clouds, the Mariner was at a loss for his Guide, and exposed to the casual conduct of the Winds and Tides. For which reason the Ancients seldom or never durst venture into the Ocean, but steer'd along within fight of the Safer Shore. So that the Commerce and Communications of those Days were very narrow; Their famed Travels in comparison were but domestick; and a whole World was to them unknown. But it hath been the happy priviledge of later Days to find the way to apply the wonderful Vertues of the Loadstone to Navigation; and by the direction of the Compass we Ecurely commit our selves to the immense Ocean, and find our path in the vastest Wilderness of Waters. So that Commerce and

and Traffique is infinitely improved; the other half of the Globe disclosed; and that on this side the great Sea, better understood: The Religions, Laws, Customs, and all the Rarities and Varieties of Art and Nature, which any the most distant Clime knows and enjoys, are laid open and made common; and thereby the History of Nature is wonderfully inlarged, and

Knowledge is both propagated and improved. Who it was that first discovered this excellent Mystery, is not certainly known: But one Flavius Goia of Amalphis in the Kingdom of Naples, is said to be the Author; and to have found this incomparable Rarity about 300 years ago. 'Tis pity that one of the greatest Benefactors to Mankind that ever was, should lie hid in so neglected an obscurity; when the great Troublers of the World, who have vex'd it by the Wars of the Hand, and of the Brain, have so dear and so precious a Memory. For my part I think there is more acknowledgment due to the name of this obscure Fellow, that hath scarce any left, than to a thousand Alexanders and Cafars, or to ten times the number of Aristotle's and Aquinas's. And he really did more for the increase of Knowledge, and advantage of the World by this one Experiment, than the numerous subtile Disputers that have lived ever since the erection of the School of Wrangling.

And methinks it may not be improper for me here to take notice of that other great German Invention, that useth to be mentioned in the Company, viz. That of Gun-powder and Artilery, which hath done its Service also for the help and propagation of Knowledge, as you will perceive when you shall consider; that by the assistance of these terrible Engines of Death, the great Western Indies were presently subdued, which likely had not been so easily effected by the ancient and ordinary Methods of War. 'Twas this I bunder and Lightning, and the invisible Instruments of Ruine, that destroyed the Courage of those numerous and hardy People, took away the hearts of the strongest Resisters, and made them an easily Prey to the Conquering Invaders.

And now by the gaining that mighty Continent, and the numerous fruitful Isles beyond the Atlantick, we have ob-

tained.

tained a larger Field of Nature, and have thereby an advantage for more Phanomena, and more belps both for Knowledge, and for Life; which 'tis very like that future Ages will make better use of to such Purposes, than those hitherto have done; and that Science also may at last travel into those Parts, and inrich Peru with a more precious Treasure than that of its Golden Mines, is not improbable. And so these Engines of Destruction, in a sense too are Instruments of Knowledge. Of the first Author of this Experiment we know no more, but that he was a German Monk, who lighted on it by chance, when he was making some Chymical Tryals with Nitre, near about the time of the Invention of the Compass; but his Name and other Circumstances are lost.

Now whoever considers, with the Noble Virulam, how much the state of things in the World hath been altered and advanced by these THREE EXPERIMENTS alone, will conceive great hopes of Modern Experimental Attempts, from which greater Matters may be looked for, than those which were the Inventions of Single Endeavourers, or the Re-

Sults of Chance.

And of all the Combinations of Men that ever met for the Improvement of Science, there were never any whose Designs were better laid, whose Abilities were more promising, or whose Constitution was more judiciously or advantageously formed, than the ROYAL SOCIETY.

This Noble Institution was the THIRD Advantage I mentioned, that the Modern World hath for the Communication and Increase of Knowledge. And here I find I am happily prevented, and need not say much about it; For the HISTO-RY of their Constitution and Performances that is abroad, gives so full and so accurate an Account of them and their Designs, that perhaps it may be superstuous to do more in This, than to recommend that excellent Discourse to the perusal of those that would be informed about those Matters; which I do with some more than ordinary zeal and concernment, both because the Subject is one of the most weighty, and considerable, that ever afforded Matter to a Philosophical Pen, and because it is writ in a way of so judicious a gravity, and so prudent

dent and modest an expression, with so much clearness of sense, and such a natural fluency of genuine Eloquence, that I know it will both profit and entertain the Ingenious. And I fav further. That the Style of that Book hath all the Properties that can recommend any thing to an ingenious relish: For 'tis manly, and yet plain; natural, and yet not careles; The Epithets are genuine, the Words proper and familiar, the Periods (mooth and of middle proportion: It is not broken with ends of Latin, nor impertinent Quotations; nor made harsh by bard words, or needless terms of Art: Not rendred intricate by long Parentheses, nor gaudy by flanting Metaphors; not tedious by wide fetches and circumferences of Speech, nor dark by too much curtness of Expression: 'Tis not loose and unjointed, rugged and uneven; but as polite and as fast as Marble: and briefly, avoids all the notorious defects, and wants none of the proper Ornaments of Language. In this excellent History the Inquisitive may find what were the Reasons of forming fuch a Combination as the ROYAL SOCIETY, what is the Nature of that Constitution, what are their Designs, and what they have done. For there is Collection of some (among numerous others that are in their Repository) of the Experiments, Observations, and Instruments which they have invented and advanced for the improvement of real, useful Knowledge, and a full vindication of the Design, from the dark Inspicions and objections of jealousie and ignorance.

BUT that I may not wholly refer my Reader, which may look like a put-off, I'le here offer something concerning this: Establishment, as it is an Advantage for the communication and increase of Science. I say then, That it was observed by the excellent Lord Bacon, and some other ingenious Moderns, That Philosophy, which should be an Instrument to work with, to find out those Aids that Providence hath laid up in Nature to help us against the Inconveniences of this State, and to make fuch applications of things as may tend to universal benefit; I fay, They took notice, that instead of such a Philosophy as this, That which had usurp'd the Name, and obtained in the Schools, was but a combination of general Theories, and Notions, that were concluded rashly, without due information from particulars, and spun out into unprofitable Niceties, that tend to no-

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thing but Dispute and Talk, and were never like to advance

any Works for the benefit and use of Men.

This being confider'd, the deep and judicious Verulam made the complaint, represented the defects and unprofitableness of the Notional way, proposed another to reform and inlarge Knowledge by Observation and Experiment, to examine and record Particulars, and so to rise by degrees of Induction to general-Propositions, and from them to take direction for new Inquiries, and more Discoveries, and other Axioms; that our Notions may have a Foundation upon which a folid Philosophy may be. built, that may be firm, tite, and close knit, and suited to the Phanomena of things: So that Nature being known, it may be master'd, managed, and used in the Services of Humane Life.

This was a mighty Design, groundedly laid, wisely exprest, and happily recommended by the Glorious Author, who began nobly, and directed with an incomparable conduct of Wit and Fudgment: But to the carrying of it on, It was necessary there should be many Heads and many Hands, and Those formed into an Assembly, that might intercommunicate their Tryals and Observations, that might joyntly work, and joyntly consider; that so the improvable and luciferous Phanomena, that lie scatter'd up and down in the vast Campaign of Nature, might be aggregated and brought into a common Store. This the Great Man desired, and form'd a SOCIETY of Experimenters in a Romantick Model, but could do no more; His time was not ripe for fuch Performances.

Thele things therefore were confider'd also by the later Virtuofi, who several of them join'd together, and set themselves. on work upon this grand Design; in which they have been so happy, as to obtain the Royal Countenance and Establishment, to gather a great Body of generous Persons of all Qualities and forts of Learning, to overcome the difficulties of the Institution, and to make a very encouraging and hopeful progress in their pursuits: For the account of which Particulars, I refer to the History, and only take notice, How ignorantly those rash and inconsiderate People talk, who speak of this Assembly as if they were a company of Men whose only aim is to set up some new Theories and Notions in Philosophy; whereas indeed, Their

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first and chief Imployment is, carefully to feek and faithfully to report how things are de facto; and they continually declare against the establishment of Theories, and Speculative Doctrines, which they note as one of the most considerable miscarriages in the Philosophy of the Schools: And their business is not to Dispute, but Work. So that those others also that look on them as pursuing phansyful Designs, are as wide and unjust in their ill-contriv'd Censure: Since Their Aims are to free Philosophy from the vain Images and Compositions of Phansie, by making it palpable, and bringing it down to the plain Objects of the Senses; For those are the Faculties which they employ and appeal to, and complain that Knowledge hath too long hover'd in the Clouds of Imagination: So that methinks this ignorant Reproach is, as if those that doted on the Tales of the Fabulous Age, should clamour against Plutarch and Tacitus as idle Romancers. For the main intention of this Society is to erect a well-grounded Natural History, which takes off the beats of wanton Phansie, hinders its extravagant Excursions, and ties it down to sober Realities.

But we frequently hear an insulting Objection against this Philosophical Society, in the Question, Albat have they

done ?

To which I could answer in short, more than all the Philosothers of the Notional way, fince Aristotle opened his Shop in Greece: Which Saying may perhaps look to some like a fond and bold Sentence: But whoever compares the Repository of this Society, with all the Volumes of Disouters, will find it neither immodest nor unjust : And their History hath given us Instances sufficient of their Experiments, Observations, and Instruments, to justifie a bolder Assirmation. But I insist not on this: The thing I would have observ'd is, That those who make the captious Question, do not comprehend the valtness of the Work of this Assembly, or have some phantaltical Imaginations of it. They consider not that the Design is laid as low as the profoundest Depths of Nature, and reacheth as high as the uppermost Story of the Universe; That it extends to all the Varieties of the great World, and aims at the benefit of universal Mankind. For could they expect that fuch mighty Projects as these should ripen in a moment? Can a Cedar Cedar shoot up out of the Earth like a Blade of Grass? or an Elephant grow to the vastness of his bulk, as soon as a little

Insect can be form'd of a drop of Dew?

No; The true knowledge of general Nature, like Nature it self in its noblest Composures, must proceed slowly, by degrees almost insensible: and what one Age can do in so immense an Undertaking as that, wherein all the Generations of Men are concerned, can be little more than to remove the Rubbish, lay in Materials, and put things in order for the Building. Our work is to overcome Prejudices, to throw aside what is useless, and yeelds no advantage for Knowledge, or for Life; To perswade Men that there is worthier Imployment for them, than tying Knots in Bulrushes; and that they may be better accommodated in a well-built House, than in a Castle in the Air : We must feek and gather, observe and examine, and lay up in Bank for the Ages that come after. This is the business of the Experimental Philosophers; and in these Designs a progress hath been made sufficient to satisfie sober expectations: But for those that look they should give them the Great Elixir, the Perpetual Motion, the way to make Glass malleable, and Man immortal; or they will object that the Philosophers have done nothing: for fuch, I fay, their impertinent Taunts are no more to be regarded, than the chat of Ideots and Children.

But I think I am fallen into things of which the Ingenious Historian hath somewhere given better accounts; However I shall briefly endeavour to shew the injustice of the Reproach of having done nothing, as'tis applyed to the Royal Scociety, by a fingle Instance in one of their Members, who alone hath done enough to oblige all Mankind, and to erect an eternal Monument to his Memory. So that had this great Person lived in those days, when Men deified their Benefactors, he could not have miss'd one of the first places among their exalted Mortals: And every one will be convinc'd that this is not vainly faid, when I have added, That I mean the Illustrious Mr. BOYLE, a Person by whose proper Merits that noble Name is as much adorned, as by all the splendid Titles that it wears: And that this Honourable Gentleman hath done such things for the benefit of the World, and increase of Knowledge,

ledge, will easily appear to those that converse with Him in

his excellent Writings.

(1.) In his Book of the AIR, we have a great improvement of the Magdeburg Experiment, of emptying Glass Vessels by exsuction of the Air, to far greater degrees of evacuation. eale, and conveniences for use; as also an advance of that other famous one of Torricellius, performed by the New Engine, of which I have faid some things above, and call'd the AIR-PUMP. By this Instrument (as I have already intimated) the Nature, Spring, Expansion, Pressure, and Weight of the Air; the decrease of its force when dilated, the Doctrine of a Vacuum, the Height of the Atmosphere, the Theories of Respiration, Sounds, Fluidity, Gravity, Heat, Flame, the Magnet, and several other useful and luciferous Matters, are estimated, illustrated, and explain'd.

And (2.) The great Doctrine of the Weight and Spring of the Air is folidly vindicated and further afferted by the Illustrious Author, in another BOOK against HOBS and

LINUS.

(3.) In his PHYSIOLOGICAL and EXPE-RIMENTAL ESSAYS, he nobly encourageth and perswades the making of Experiments, and collecting Observations, and gives the necessary Cautions that are to be used in fuch Designs. He imparts a very considerable luciferous Experiment concerning the different parts and redintegration of Salt-petre; whence he deduceth, That Motion, Figure, and Disposition of parts, may suffice to produce all the secondary Affections of Bodies; and consequently, That there is no need of the substantial Forms and Qualities of the Schools. To this he adds a close History of Fluidity and Firmness, which tends mightily to the elucidating of those useful Doctrines.

(4.) In his SCEPTICAL CHYMIST he cautions against the sitting down and acquiescing in Chymical and Peripatetical Theories, which many do, to the great hinderance of the growth and improvement of Knowledge. He therefore adviseth a more wary consideration and examen of those Doarines, before they are subscribed; and for that purpose he affifts them with many very confiderable Observations and Ex-

periments.

(5.) In his USEFULNESS of EXPERI-MENTAL PHILOSOPHY, he makes it appear how much that way tends to the advance of the Power and Empire of Man over the Creatures, and the universal Benefit of the World; confirming and illustrating his Discourse with innu-

merable new and useful Discoveries.

(6.) In his HISTORY of COLD, he hath to wonder cultivated that barren Subject, and improved it (as is noted in the Philosophical Transactions) by near 200 choice Experiments and Observations. He hath there given an account of the defectiveness of common Weather-Glasses, the Advantages of the new Hermetical Thermometers, and an Inquiry concerning the cause of the Condensation of the Air, and Ascent of Water by Cold in the ordinary Weather-wisers; All which afford valuable Considerations of Light and Use. But these are only Preliminaries: The main Discourse presents us with an Account what Bodies are capable of freezing others, and what of being frozen; The ways to estimate the degrees of coldness; How to measure the intenseness of Cold produced by Art, beyond that imploy'd in ordinaty Freezing; In what proportion Water will be made to shrink by Snow and Salt; How to measure the change produc'd in Water between the greatest beat of Summer, the first degree of Winter-cold, and the highest of Art; How to discover the differing degrees of Coldness in different Regions. A way of freezing without danger to the Vessel. What may be the effects of Cold, as to the preserving or destroying the texture of Bodies. Whether specifick Virtues of Plants are lost through congelation, and then thawing. Whether Electrical and Magnetick Vertues are altered by Cold? The expansion and contraction of Bodies by freezing; how they are caused, and how their quantity is to be measured. The strength of the expansion of Water freezing, and an Inquiry into the Cause of that prodigious force. The Sphere of Activity of Cold. How far the Frost descends in Earth and Water. An Experiment shewing whether Cold can act through an hot medium. A way of accounting the folidity of Ice, and the strength of the adhesion of its parts: What Liquors are its quickest Dissolvents. An Experiment of beating a cold Liquor with Ice. These, and many more such

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instructive and useful things, are contained in that excellent Discourse: To which is annex'd a very ingenious Examination and Disproof of the common obscure Doctrine of Antipe-

ristafis, and Mr. Hobbs his Notion of Cold.

(7.) In his EXPERIMENTAL HISTORY of COLOURS, he hath laid a foundation in 150 Experiments at least, for grounded Theory about these Matters. He hath shewn the grand mistake of the common belief, That Colours inhere in their Objects; and proved they depend upon the disposition of the external parts, and the more inward texture of Bodies. He hath stated and explained wherein the Disparity confifts between the Real and Exphanical; explicated the Nature of Whiteness and Blackness; rectified some Chymical Principles; compounded Colours by trajecting the Solar Beams through tinged Glasses; shewed how by certain Tinctures it may be known, whether any Salt be acid or Julphureous. Hath proved, there is no necessity of the Peripatetick FORMS for the production of Colours, by making Green by nine kinds of mixtures; compounded Colours real and phantastical; turned the Blew of Violets by acid Salts into a Red, and by the alcalizate into a Green; and performed many other extraordinary things on this Subject, for the advantage of Knowledge, and the uses of Life.

(8.) In his HYDROSTATICAL PARA-DOXES he shew'd, That the lower parts of Fluids are press'd by the upper; That a lighter may gravitate upon one that is more ponderous; That if a Body contiguous to it, be lower than the highest level of the Water, the lower end of the Body will be press'd upwards by the Water beneath; That the weight of an external Fluid sufficeth to raise the Water in Pumps; That the pressure of an external Fluid is able to keep an Heterogeneous Liquor suspended at the same beight in several Pipes, though they are of different Diameters; That a Body under Water, that hath its upper Surface parallel to the Horizon, the direct pressure it sustains is no more than that of a Columne of Water, which hath the mentioned Horizontal Superficies for its Basis. And if the incumbent Water be contained in Pipes open at both ends, the pressure is to be estimated by the weight of a Pillar of Water, whose Basis is equal to

the lower Orifice of the Pipe (parallel to the Horizon) and its beight equal to a Perpendicular, reaching to the top of the Water, though the Pipe be much inclined, irregularly shaped, and in some parts broader than the Orifice; That a Body in a Fluid sustains a lateral pressure from it, which increaseth in proportion to the depth of the immerst Body in the Fluid; That Water may be made to depress a Body lighter than it self; That a parcel of Oil lighter than Water, may be kept from ascending in it; That the cause of the ascension of Water in Syphons, may be explained without the notion of abhorrence of a Vacuum; That the heaviest Body known will not sink of it self, without the assistance of the weight of the Water upon it, when 'tis at a depth greater than twenty times its own thickness, though it will nearer the Surface.

This is the sum of the general Contents of that Discourse, which contains things very useful to be known for the advantage of Navigation, Salt-Works, Chymistry, and other practi-

cal purposes.

(9.) In his Book of the ORIGINE of FORMS and QUALITIES, he delivers the minds of Men from the imaginary and useless Notions of the Schools about them, which have no foundation in the nature of things, nor do any ways promote Knowledge, or help Mankind; but very much differve those great Interests, by setting the Understanding at rest in general obscurities, or imploying it in airy Nicities and Disputes, and so hindring its pursuit of particular Causes, and Experimental Realities. In this Treatise he lays the Foundations and delivers the Principles of the Mechanick Philosophy, which he strengthneth and illustrates by several very pleasant and instructive Experiments. He shews, That the most admirable Things which have been taken for the Effects of substantial Forms, and are used as proofs of the Notional Hypotheses, may be the results of the meer texture and position of parts; fince Art is able to make Vitriol, as well as Nature; and Bodies by humane skill may be produced, whose supposed Forms have been destroyed. He gives many very ingenious instances to prove, That the Mechanick Motions and order of the Parts is sufficient to yeeld an account of the difference of Bodies, and their affections, without having recourse to the Forms

Forms and Qualities of the Schools; as in the referation of Campbire to its former smell and nature, after its dissolution and seeming extinction; in the changes of the colour, consistence, susibleness, and other Qualites of Silver, and Copper; in the odd Phanomena of a certain anomalous Salt, and those of the Sea. Salt, dried, powder'd, and mix'd with Aqua-Fortis; and in the Sal Mirabilis, in the production of Silver out of Gold by his Menstruum Peracutum, in the transmutation of Water into Earth in a certain Distillation of Spirit of Wine, and Oil of Vitriol. I say, This excellent Person hath by Experiments rare and new about these Subjects, made it evidently appear, That the internal motions, consiguration, and possure of the parts, are all that is necessary for alterations and diversities of Bodies; and consequently, That substantial Forms and real Qualities are needless and precarious Beings.

These are some brief and general Hints of those great things this incomparable Person hath done for the information and benefit of Men; and besides them, there are several others that He hath by him, and the Inquisitive expect, in which real Philosophy and the World are no less concern'd. I received a late Account of them from an ingenious Friend of his, Mr. Oldenburgh, Secretary to the ROYALSOCIETY, who also renders himself a great Benefactor to Mankind, by his affectionate care, and indefatigable diligence and endeavours, in the maintaining Philosophical Intelligence, and promoting the Designs and Interests of profitable and general Philosophy. And these being some of the Noblest and most Publick Imployments, in which the Services of generous Men can be ingaged, loudly call for their Aids and Assistances, for the carrying on a Work of so universal an importance.

But I shall have a sitter place to speak of this, and therefore I return to the Illustrious Person of whom I was discoursing. And for Philosophical News, and surther evidence of the Obligation the World hath to this Gentleman; I shall here insert the Account of what he hath more, yet unpublished, for its advantage and instruction. And I take the boldness to do it, because himself hath been pleased to quote and refer to those Discourses in his published Writings; concerning which,

M. O's

M. O's Account is more particular, and he receiv'd it from

the Author. It speaks thus:

(1.) Another Section of the Usefulness of Experimental Philosophy, as to the Empire of Man over inferiour Creatures; where he intends to premise some general Considerations about the Means whereby Experimental Philosophy may become uleful to Humane Life; proceeding thence to shew, That the Empire of Man may be promoted by the Naturalists skill in Chymistry, by his skill in Mechanicks, or the Application of Mathematicks to Instruments and Engines; by his skill in Mathematicks, both pure and mixt: That the Goods of Mankind may be much increased by the Naturalist's infight into Trades; That the Naturalist may much advantage Men, by exciting and affifting their curiofity to discover, take notice, and make use of the home-bred Riches and Advantages of particular Countries, and to increase their number, by transferring thither those of others; That a ground of high expectation from Experimental Philolophy is given, by the happy Genius of this prefent Age, and the productions of it; That a ground of expecting considerable things from Experimental Philosophy is given by those things which have been found out by illiterate Tradesmen, or lighted on by chance; That some peculiar and concealed property of a natural thing, may inable the knowers of it to perform, with eafe, things, that to others feem either not feasible, or not practicable without great difficulty; That by the knowledge and application of some unobvious and unbeeded Properties and Laws of natural things, divers Effects may be produced by other Means and Instruments than those one would judge likely; and even by Juch, as if proposed, would be thought unlikely; That the knowledge of peculiar Qualities, or uses of Physical things, may inable a Man to perform those things Physically, that seem to require Books, and dexterity of hand proper to Artificers; That the uses of scarce one thing in Nature, to Humane Life, are yet thorowly understood; That a great Inducement to hope for confiderable Matters from Experimental Philosophy, may be taken from the mutual affishance that the Practical and Theorical part of Physick may be brought to afford each other; That we are not to make our Estimates of what may be boped for hereafter, when Men shall be affisted with

with the History of Nature, a method of imploying it, and true Principles of Natural Philosophy, and affociated Endeavours, by what is already performed without any of those Assistances. (2.) He hath also in a manner promised Essays touching the concealments and disguises of the Seeds of living Creatures. (3.) An Appendix to the Physico-Mechanical Treatise concerning the Air. (4.) Something concerning Heat and Flame. (5.) The Sceptical Naturalist, shewing the imperfections of Natural Philosophy as we yet have it. (6.) A Discourse of improbable Truths. (7.) The production of Qualities by Art. (8.) Several useful Series of Inquiries and Directions of bis, whereof divers are extant in the Philosophical Transactions; as, (1.) General Heads for a Natural History of a Country small or great. (2.) Observations and Directions about the Barometer. (3.) Inquiries touching the Sea; and, (4.) About Mines. (5.) Quaries and Tryals proposed, for the improving of that Grand Experiment, for the transfusing Blood out of one live Animal into another. (6.) Others for the finding the Effects of the Rarifying Engine exhausted, in Plants, Seeds, and Eggs of Silk-Worms. Besides These, he hath a great many other unpublish'd Inquiries, and Series of Experiments and Observations of the most considerable parts of Natural Philosophy. As, (1.) About precious Stones. (2.) Fermentation. (3.) Heat and Flame. (4.) An Account of a new kind of Baroscope, which he calls Statical, and the advantage it hath above the Mercurial. (5.) A New Experiment, shewing how a considerable degree of Cold may be suddenly produced without the help of Snow, Ice, Hail, Wind, or Nitre, and that at any time of the year, viz. by Sal Armoniack. (6.) A way of preferving Birds taken out of the Eggs, and other small Fatus's.

This is the Account I received of that Noble Person's further Designs for the advantage of Useful Knowledge; and though he hath not made an absolute Promise of those Discourses to the Publique, yet he is known to have such, and they are with probability expected, since he is too generous to detain from the capable and inquisitive those his excellent Discoveries, which tend to the common Benefit. And thus I have

faid what may fuffice for general Information about the ROYAL SOCIETY, and the hopes we may justly conceive of this Constitution. And in what I have discoursed, I have not deviated from my undertaking, which was to shew the advantage that this latter Age hath, for the promotion and increase of Knowledge, above those of former Times: For by describing the Reasons, Nature, and some of the Effects of this Establishment, I have not obscurely suggested the Helps that the World hath and may expect from Them, for those great and noble Purpofes; and 'tis easie to see in the very frame of this Assembly, that they are fitted with Opportunities to collect most of the considerable Notices, Observations, and Experiments, that are scattered up and down in the wide World; and so, to make a Bank of all the Useful Knowledge that is among Men: For either by their whole Body, or some or other of their particular Members, they hold a Learned Correspondence with the greatest Virtuosi of all the known Universe, and have several of their own Fellows abroad in Forreign Parts, by reason of whose Communications, they know most of the valuable Rarities and Phanomena observed by the curious in Nature, and all considerable Attempts and Performances of Art. Ingenuity, and Experiment: To which confideration, if we add the inquisitiveness of their Genius, and the way of their proceeding, by particular and cautious Observation; the coldnels and hinels of their Allent, and the numbers of judicious Men that earefully examine their Reports; I fay, If these Particulars be weighed, it will appear to the unprejudiced, That the World had never such an advantage for the accumulating a Treasure of substantial Knowledge, as it hath by this Constitution: For fingle Inquisitors can receive but scant and narrow Informations, either from their own Experience, or Converses; and those they have, are frequently very imperfect, or very mistaken: There is often either vanity or credulity, ignorance or design in their Relations, which therefore are many times, false in the main Matter, and oftner in the Circumstance: So that the Histories of Nature we have hitherto had, have been but an beap and amassment of Truth and Falshood, Vulgar Tales, and Romantick Accounts; and 'tis not in the power of particular. unassociated Endeavours to afford us better: But now, the frame

frame of this Society suggests excellent ground to hope from them sincere and universal Relations, and the best grounded and most useful Collection of the Affairs of Art and Nature, that ever yet was extant: And as they have peculiar Priviledges for the gathering the Materials of Knowledge, so They have the Same for the impartment and diffusion of them.

I should now put an end to this Discourse, but that there is another common prejudice against the ROYAL SOCIE-TY, and all those of that Genius, to which I must speak a little; The Charge is, That they despise the Ancients, and all old Learning, which have been venerable among the best and wifest of all Times. To this I say, That the Modern. free Philosophers, are most ready to do right to the Learned Ancients, by acknowledging their Wit, and all the ufeful Theories, and Helps we have from them; They read, and confider their Writings, and chearfully entertain any Notices. or Observations they have imparted to us: They have a respect for their great names, and are ready to do honour to them: But yet they do not think that those, however venerable Sages, should have an absolute Empire over the Reasons of Mankind; nor do they believe, That all the Riches of Nature were discovered to some few particular Men of former Times; and that there is nothing left for the benefit and gratification of after-Inquirers: No; They know, There is an inexbaustible variety of Treasure which Providence hath lodged in Things, that to the Worlds end will afford fresh Discoveries, and suffice to reward the ingenious Industry and Researches of those that look into the Works of God, and go down to See his Wonders in the Deep. This, no doubt, the modesty and justice of the Ancients themselves would have confes'd: But besides this, the Modern Experimenters think, That the Philo-Sophers of elder Times, though their Wits were excellent, yet the way they took was not like to bring much advantage to Knowledge, or any of the Uses of humane Life; being for the most part that of Notion and Dispute, which still runs round in a Labyrinth of Talk, but advanceth nothing: And the unfruitfulness of those disputing Met bods, which directly and by themfelves never brought the World so much practical, beneficial KnowKnowledge, as would help towards the Cure of a Cut Finger, or the Cooling of an Hot Head, is a palpable Argument, That they were fundamental Mistakes, and that the Way was not

right.

For, as my Lord Bacon observes well, Philosophy, as well as Faith, must be shewn by its Works: And if the Moderns cannot shew more of the Works of their Philosophy in six years, than the Peripateticks can produce of theirs; in the compass of as many Ages, let them be loaded with all that Contempt which is usually the reward of vain, and unprositable Projectors. Is say then the Modern Philosophers arrogate nothing to their own Wit, above that of the Ancients: but by the reason of the thing, and material, sensible Events, they find they have an advantage by their may. And a lame Child that slowly treads the right Path, will at last arrive to his Journeys end; while the swift Footman that runs about in a Wood, will lose himself in his wandrings.

But notwithstanding all this, there are some of Opinion that Aristotle had more advantages for Knowledge than the Moderns, because he had the Survey of all Asia, by those who at the charge of his great Scholar were imployed to make Experiments. This I have heard alledged; but I think this reason is very desective, both in what it affirms, and in what it

would infer.

For first, 'Tis evident that Aristotle and the Ancients did not know all ASIA; for that part which lay beyond the River, was in a manner a Terra Incognita unto them: so that they knew scarce any thing of the Indies that lie on the other side of Ganges, little or nothing of the vast Kingdom of China, nothing of Japan, or the numerous Oriental Islands, besides the desects in the ancient Geography, noted above; and these made a great, if not the best part of Asia; of which though Aristotle might have heard; yet we have no shadow of Reason to believe that he had any Informations from thence. And then I consider,

(2.) That the Account he had from the best survey'd Regions, were but from Hunters, Fowlers, Fishermen, and such kind of Inquisitors, who were like enough to make vain and mistaken Reports, and he was sain to depend upon the credit of

their:

their Relations; and therefore 'tis observ'd by Learned Men that his History of Animals contains many things that are frivolous, and many that are palpably false. To which I

add,

(3.) The remarque of my Lord Bacon, That though Aristoile made some use of those Experiments; and Observations he had from those Informers, yet it was after he had concluded and decreed. For he did not use and imploy Experiments for the erecting of his Theories: but having arbitrarily pitch'd his Theories, his manner was to force Experience to Suffragate, and yield countenance to his precarious Propositions. And on this account, the Great Man saith, he was less excusable than the Schoolmen, who altogether quitted and neglected the way of particular Industry and Experiment. Thus then Aristotle neither knew all Asia, nor had certain Relations of that part thereof, of which he had the best Informations; nor did he use those he had as he ought; which were enough to overthrow the conceit of his Superlative Advantages. But I confider further, That though these things had been otherwise, and as much for the interest of the fond Phansy as could be

wish'd, yet,

(-2.) The Inference must fail, since the latter Ages have a much larger World than Aristotle's Asia; We have America, and the many New Lands that are discovered by Modern Navigators; we have larger and more perfect Geography even of the old World, infinitely more acquaintance and better correspondence in all the parts of the Universe, by our general Traffique, than the Ancients; whose Commerce was narrow, and knowledge of remote Parts confifted but in hearlays, and doubtful Rumors- We have besides, New Heavens as well as a New Earth, a larger and truer prospect of the World above We have travell'd those upper Regions by the help of our Tubes, and made Discoveries more becoming the Wisdom and Magnificence of our Creatour, and more agreeable to the appearances of things, than the arbitrary Phansies and Conje-Ctures of Aristotle and his Schools. We have a greater World of Arts; Instruments, and Observations, as in all Particulars my Discourse hath made good. And what are Aristotle's peragrations of Asia, to all these? To the great Western Indies;

to the fuller and clearer knowledge of the Ancient Lands; to those nobler Accounts we have of the Heavens, and universal Nature; to our vast Improvements of Chymistry, Anatomy, Arithmetick, Geometry, Astronomy, Geography, Opticks, Natural History, Navigation, and all things else of benefit and instruction? I say, What are the gleanings of a few mercenary Hunters, Fowlers, and Fishermen, over one part of Asia, to these Advantages? And what are the Reports of a few ordinary Fellows, and the Tryals of a single Person, to the learned Inquiries and Endeavours of many sagacious inquisitive Ages, and the performances of a numerous Company of deep, wary, diligent, and Eagle-ey'd Philosophers, who have the help of those Observations, and the addition of an infinite number more?

But my Design is, by representing the advantages and hope-fulness of the Modern Way, to kindle an ardour towards the generous Experimental Researches, to vindicate Philosophy from the imputation of being notional and unprositable, and to keep Men from adhering to that which is so, and hath been the occasion of the scandal. And as for those that yet stick there, I have some things to observe concerning the Reasons of their Devotion to that airy disputative Philosophy, and their Enmity to the Practical.

I consider then, That easie Youth in its first Addresses to Learning, is wholly passive to the Discipline and Instructions of its Teachers, whose Documents are promiscuously received with ready submission of Understandings, that implicitly depend on their Authority. We fuck in the first Rudiments as we do the common Air [facili haustu] as my Lord Bacon expresseth it, without discrimination or election, of which indeed our tender and unexercifed Minds are not capable. And, I confess, 'tis necessary we should do so; nor were there any hurt in this innocent eafiness, did not most Men all their lives worship the first thing they saw in the morning of their days, and ever after obstinately adhere to those unexamined Receptions: But this is the mischief, we infinitely believe every thing when we are Children; and most examine little when they are Men, but settle in their first Impressions, without giving themfelves

selves the trouble to consider and review them. And these prejudices, by custom and long acquaintance with our Souls, get a mighty interest, and shut them up against every thing that is different from those Images of Education. This is a general fault and infirmity of humane Nature, and from hence it comes to pass, that the tutour'd Youth slides easily into the belief of the first Principles of Philosophy, which they are taught, and are confirm'd in them by their Exercises and Disputes, and Books and Converses: By these their Understandings, which before were White-Paper, are dyed and deeply tinctured by the colour they have imbibed; And these infusions insensibly pals as 'twere into the very substance of the Mind, and are appeal'd to, on all occasions, as unsophisticated Truths. So that having spent some time in learning and trimming those Notions, the most divert to Business, or other Studies, without troubling themfelves with any more Philosophical Pursuits; but being satisfied with those Notices which their first Education lodg'd in their Minds, they seek no further, nor do care to be wifer in those Matters, than they were in the disputing Infancy of their Knowledge.

All this while no other hurt is done, but that Men thus are injurious to themselves, and hinder their own Improvements: but 'tis much worse when they fondly fix these as the Pillars of Science, and would have no body else go surther than their laziness or their cares will permit them to travel; but rail spitefully at all Endeavours for the advancement of Philosophick Wisdom, and will be angry with every one that hath outgrown his Cherry-stones and Rattles; speak evil at a venture of things they know not, and like Mastives, are siercer for being kept dark. These are the great Enemies of the useful, experimental Methods of Philosophy: They take it ill that any thing should be accounted valuable, in which they are uninstructed, being both to learn in an Age wherein they expect to Distate; and the Satyrist hath told them another reason.

Imberbes didicêre, senes perdenda fateri.

This is much the case of many of the Peripatetick Disputers, ters; They imployed their Younger Studies upon the Philosophy of Disputation, and, it may be, gain'd an ability to out-talk many of their Contemporaries in that way. They confirm'd themselves in these Notions by instructing others in them, and upon these Foundations have built the Reputation of being great Scholars, and mighty Disputants among their Admirers. So that we are not to wonder, if they are vehemently displeas'd with the ROYAL SOCIETY, and Experimental Philosophers, since their Designs take away the honour of their Crast, and in this way, They are upon the same level with those that are but beginning; the thought of which must needs be distasseful to self-alsur'd and imperious Minds. And yet, that it may not be thought I speak any of this out of envy to their Fame, I shall do them all the right I can, by acknowledging,

That I take them for Persons that understand the Quiddities and Hacceities, the Pracisiones formales and the Objectiva, the Homogeneities and Heterogeneities, the Catagorematice's and the Syncatagorematice's, the Simpliciter's, and the secundum

Quid's.

They know, no doubt, that First Matter that is neither Quid, nor Quale, nor Quantum; and that wonderful Gremium materia, out of which Forms were educ'd, that were never there. They can tell you fine things of the fiery Element under the Moon, and the Epicycles of the Stars; Can resolve all Questions by the compendious way of Formaliter, Materialiter, Fundamentaliter, and Eminenter; Tell the difference between Quodam modo, and Modo quodam; and shew the causes of all things in Sympathy, Antipathy, Combination of the Elements, and Influences of the Heavens. They fee clearly by their Spectacles, That the Milkie-way is but a Meteor, and Comets only kindled Vapours, in spite of the contrary information of the deceitful Telescopes. They can, no doubt, dispute roundly about the composition of Entia rationis, and Universals, the Pradications of Genus and Species, and the manner of their conservation in Individuals; of the number of the Pradicaments, and what Being is in this, and what in another; of the inherence and propagation of Accidents, the real essence of Relations, the nature of Ubi and Quando, and a thousand

thousand other Logical tricks about shuffling and ordering Pro-

positions and Forms of Syllogism.

They can discourse of the nakedness of First Matter, the Eduction of Forms out of its Bosom; shew, that the mant of a Being is a Principle of it, how forms of Elements are refracted in mix'd Bodies; Dispute subtilly about the Primum incipiens in Motion, the instantaneousness of Generation, the Maximum quod sic, and the Minimum quod non, and infinite more of such wonderful, useful, significant Speculations.

And in the Metaphysicks, I acknowledge them in the words

of the incomparable Droll;

They know what's what, and that's as high As Metaphysick Wit can fly.

These, and other such Profundities, are some of the maine things of that Philosophy, for which Peripatetiek Disputers are so zealous. But for the Mechanick, that attempts material and intelligible Accounts of things, and is in its grounds much ancienter than that of Aristotle which they admire; for the Experimental Methods, and late Improvements of useful Knowledge; Many of these Men have a suspicion, if not a contempt of them: Nor do they pretend any acquaintance with those Studies: For concluding that nothing more is to be known, than They learnt in the Circle of Disputations, they sit down in the Opinion of the persection of their Knowledge, without caring to be inform'd what the Inquisitive World is doing in this Age of Enquiry.

And on this occasion, I observe the incompetency of their fudgments, who are Enemies to the Real Experimental Philo-sophy, in that they do not (as I intimated) at all, or very little, understand what they condemn, This I have some reason to say, since in the whole compass of my Acquaintance, which is not very narrow, I profess I know not one who opposeth the Modern way, that is not almost totally unacquainted with it. And on the other side, upon the most careful turn of my thoughts among my Philosophical Friends, I cannot light on one of all those, that are for the Free and Experimental Procedure,

cedure, but who have been very well instructed in the Peripatetick Doctrines, which they have deserted, and most of them much better than those who are yet zealous Contenders for them.

And for my own part, I must confess, That while I was a Youth in the University, I was much delighted with those subtilities that exercise the Brain in the Nicities of Notion and Distinctions, and afford a great deal of idle Imployment for the Tongue in the Combates of Disputation: In which I acknowledge I was none of the most backward, but being highly pleased with those Engagements, I found as much diversion in them, as in my dearest Recreations. But after I had spent some years in those Notional Studies, perhaps with as good fuccess as some others, I began to think CVI BONO: and to consider what these things would signifie in the World of Action and Business, I say, I thought; but I could find no encouragement to proceed from the Answer my thoughts made me: I ask'd my felf, what Accounts I could give of the Works of God by my Philosophy, more than those that have none, and found, that I could amage and aftonish Ignorance with Distinctions and Words of Art, but not fatisfie ingenious Inquiry by any considerable and material Resolutions. I consider'd I had got nothing all this while, but a certain readiness in talking, and that about things which I could not use abroad, without being Pedantick and ridiculous: I perceived that that Philo-Supply aimed at no more, than the instructing Men in Notion and Dispute; That its Design was mean, and its Principles at the best uncertain and precarious; That they did not agree among themselves, nor at all with Nature. I examined the best Records I could meet with about the Author of those current Hypotheses, but could not be assured that Aristotle was be. I saw many Reasons to believe, that most of the Books that bear bis Name, are none of his; and those that are most strongly presumed to be fo, are mightily altered and corrupted by Time, Ignorance, Carclesness and Design. I perceived that the Commentators and late Disputers had exceedingly disguised and changed the Sense of those very Writings, and made up a Philosophy that was quite another thing from that which those Books contain. So that by these means I was by degrees taken off from the

the implicit Veneration I had for that Learning, upon the account of the great Name of Aristotle which it bore. And thus the great impediment was removed, and the prejudice of Education overcome; when I thought further, That useful Knowledge was to be look'd for in God's great Book the Universe, and among those generous Men that had convers'd with real Nature, undisguised with Art and Notion. And still I saw more of the justice of the excellent Poet's Censure of those Notional Philosophers, when he saith,

They stand

Lock'd up together hand in hand:

Every one leads as he is led,

The same bare Path they tread,

And dance like Fairies a phantastick Round;

But neither change their Motion, nor their Ground.

From this Philosophy therefore, and these Men, I diverted my Eyes and Hopes, and fixt them upon those Methods that I have recommended, which I am sure are liable to none of those

Imputations.

And here I think fit to add a Caution which I have given in another Discourse, and do it once more to prevent a dangerous misunderstanding, viz. And it is, That I have said nothing of this, to discourage young Academians from applying themselves to those first Studies, which are in use in the Universities. Their Statutes require Exercises in that way of Learning; and so much knowledge of it, as inables for those Duties, is very fit. Nor do I deny, but that those Speculations raise, quicken, and whet the Understanding, and on that account may not be altogether unprofitable, with respect to the more useful Inquisitions; provided it keep it self from being nice, airy, and addicted too much to general Notions. But this is the danger, and the greatest part run upon the Rock. The bazard of which might in great measure be avoided, if the Mathematicks and Natural History were mingled with these other Studies, which would indeed be excellent Preparatives and Dispositions to future Improvements. And I add further, That the young Philosophers must take care of looking on sheir Systema-R 2 tick : tick Notions as the bounds and perfections of Knowledge; nor make account to fix eternally upon those Theories, as established and infallible Certainties: But consider them in the modest sense of Hypotheses, and as things they are to take in their passage to others that are more valuable and important. I say, The Peripatetick Studies thus tempered, will not, I suppose, be disallowed by those who are for the Practical Methods; and so the University-Establishments can receive no prejudice from the Spirit that dislikes a perpetual acquiescence in the Philosophy of the present Schools.

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T is the perverse Opinion of hasty, inconsiderate Men, that the study of Nature is prejudicial to the Interests of Religion; And some, who are more zealous than they are wise, endeavour to render the Naturalist suspected of holding secret correspondence with the Atheist: which things if really they were so, 'twere sit that the Writings of Philosophers should be sent after the Books of curious Arts, that were voted to Destruction by Apostolick Authority and Zeal; and then were they all laid together in a fired heap, and one Drop from my Finger would quench the Flames, I would not let fall that Drop. But 'tis to be hoped there is no such guilt or danger in the case; we may suppose rather, that those unkind surmisals concerning natural Wisdom, are the effects of super-stitious

stitious Ignorance; yea, I doubt they are some of the Reliques of that Barbarism, that made Magick of Mathematicks, and

Herefie of Greek and Hebrem.

And now, were this grofs conceit about the Knowledge of Nature only the fear and fancy of the meer vulgar, it were to be pardon'd easily, and lightly to be consider'd; but the work is, the infection of the weak jealousie hath spread it self among some of those whose Lips should preserve Knowledge; and there are, I doubt, divers of the Instructers of the People, who should endeavour to deliver them from the vain Images of Fancy, that foment those fears in their own Imaginations, and theirs. For the sake of such, and those others, who are capable of Conviction, I shall endeavour to justific fober Inquilitions into God's Works; and to shew, that they are not only innocent, but very useful in most of the Affairs wherein Religion is concerned. This I shall do, for more clearness of proof, by a gradual motion of Discourse, from things that are plain, and acknowledg'd (which I shall touch briefly) to the main Matter I would enforce: In this order;

(I.) That God is to be praifed for his Works.

(II.) That his Works are to be studied by those that would praise him for them.

(III.) That the study of Nature, and God's Works, is very,

serviceable to Religion.

(IV.) That the Ministers and Professors of Religion oughtnot to discourage, but promote the knowledge of Nature, and the Works of its Author.

The FIRST contains two things, viz. That God is to ber praised; and particularly for his Works. The former is the constant Voice of Scripture, and Universal Nature; He is worthy to be praised, saith the Kingly Prophet, 2 Sam. 22. 4. Greatly to be praised, saith the same Royal Saint, 1 Chron. 16. 25. We are to offer him the Sacrifice of Praise, Heb. 13. 15. And are encouraged to do so, because, It is good to sing Praises; and praise is comely for the upright, Psal. 1. 47. and Psalm. 33.

To

To recite all the particular recommendations and commands of this duty, were endless, I only mention the next to my

thoughts, and add,

That Nature saith the same; That Praise is the Tribute that is due to the Author of our Beings; And we can offer him nothing less, and in a manner nothing else. All the World have been unanimous in this, and the rudest part of Mankind, have owned the dueness of Praise and devout Acknowledgment.

And (II.) the other Branch is as clear, That God is to be praifed particularly for his Works; For in these we have very full discoveries of his Perfections, and his Mercies, the most proper Subjects for our Praises. But here I must be more large, and therefore propose the following things to be consi-

der'd.

(1.) When God himself would represent his own Magnificence and Glory, he directs us to his Works. He illustrates his Greatness to Job, by instancing the Wonders of his Creatures: Among whom we are sent to the Earth, and Ocean; to the Clouds, and Rain; to the Light, and heavenly instunctions in Behemoth, and Leviathan; to the Ostrich, and the Eagle; and the other Furniture of Land, and Air, and Seas, in the sour last Chapters of that Book; in all these are the marks of his Glory, and his Greatness, and they are no less so of his Wisdom, and his Goodness; For in Wisdom he bath made them all, Psalm. 104. and the Earth is full of his goodness, Psalm. 119.54.

And again (2.) when devout and boly Men would quicken their own Souls, and those of others, to praise him, they use the same method, and send abroad their Thoughts among the Creatures to gather instances of acknowledgment. Thus Elihu in Job magnifieth his Power by the Lightning and Thunder, by the Snow and Rain, by the Whirlwinds of the North, and Cold of the South, and calls upon his afflicted Friend to remember to magnifie his Works that Men behold; and again bids him stand still, and consider the wondrous Works of God, Job 36, and 37 Chapters. And the Psalmist upon the same account urgeth his Soul to bless his Maker for his Majesty, and Honour disclosed in the natural Wonders of the Heavens and

Earth, the Winds and Waters, the Springs and Grass, the Trees and Hills, Pfalm. 104. throughout, and he gives par-. ticular thanks again, Psalm. 136. for the discoveries of the Divine Wisdom and Mercy in the same instances of his Providence and Power; which he further celebrates by calling upon the noblest of inanimates to praise him, Plal. 148. Praise him Sun and Moon, praise him O ye Stars and Light; which Creatures of his, though they are not able to fing Hallelujabs, and vocally to rehearle his praise, yet they afford glorious Matter for grateful and triumphant Songs, and by their beauty, and their order, excite thefe that study and observe them, to adore and glorifie their Maker. And therefore the Prophet runs on further into an aggregation of more Particulars, of Fire, and Hail, Storms, and Vapours, Mountains, and Cedars, Beafts, and Fouls, and creeping Things; all which in the same Divine Canticle are summon'd to praise bim; that is, we are required to use them as the Matter and Occasions of Holy Encharist and Thanksgiving. To these I add,

(2.) That God was pleased to sunstifie a solemn Day for the celebration of his Works. He appointed a Sabbath for rest, and contemplation to himself, and for praise and acknowledgment to us; and his making Heaven, and Earth, the Sea, and all that in them is, is intimated as the reason of the consecration of that Day; which was observed upon that account among the Jews; and the devout Christians of eldest times kept the same in memory of God's Creation, after the institution of the other Sabbath. This I take to be enough for the sirst Proposition, viz. That God is to be praised for his Works.

I descend to the second, which is,

(II.) That his Works are to be studied by those, that would praise him for them. We are commanded to sing Praises with understanding, Psal. 40.7. and the Offering he requires, is that of a reasonable service. His Works receive but little glory from the rude wonder of the ignorant; and there is no wise Man that values the applauses of a blind admiration. No one can give God the Glory of his Providence, that lets the Particulars of it pass by him unobserv'd; nor can be render due acknowledgments to his Word, that doth not search the Scrip-

tures :

tures: 'Tis equally impossible to praise the Almighty, as we ought, for his Works, while we carelesty consider them. We are commanded to fearch for Wisdom, as for hidden Treasure; It lies not exposed in the common ways; and the chief wonders of Divine Art and Goodness are not on the surface of things layed open to every careless eye. The Tribute of praise that we owe our Maker, is not a formal flight confession that his Works are wonderful and glorious; but such an acknowledgment as proceeds from deep Observation, and acquaintance with them. And though our profoundest Study and Inquiries cannot unfold all the Mysteries of Nature, yet do they still discover new Motives to devout admiration, and new Obiects for our loudest Praises. Thus briefly of the second Proposition also, viz. That God's Works are to be studied by those that would praise him for them. From these I now advance to the Third, which will require more thoughts, and it is this,

(III.) That the study of Nature and God's Works, is very serviceable to Religion. We commonly believe that the glory of God is the end of this; we say 'tis his, and we know 'tis ours, and the Divine Glory is writ upon the Creatures; the more we study them, the better we understand those Characters, the better we read his Glory, and the more sit are we to celebrate, and proclaim it. Thus the knowledge of God's Works

promotes the end of Religion.

And it disposeth us to it, by keeping the Soul under a continual sense of God. He that converseth with his Works, finds in all things the clear stamps of infinite Benignity and Wildom; he perceives the Divine Art in all the turnings and varieties of Nature, and Divine Goodness in that. He observes God in the colour of every Flower, in every fibre of a Plant, in every particle of an Insect, in every drop of Dew. He meets bim in all things, and sees all things are bis, and hath an advantage hereby to be instructed how to use them as our Makers, not ours, with reverence and thanksgiving, with an eye to his Glory, and an aim at his Enjoyment. This is the tendency of the knowledge of Nature; if it be abused to different and contrary Purposes, natural Wisdom is not in fault, but he that turns this excellent Instrument of Religion upon it self. S 2 that

that better use may be made of it, and by some is, will appear by considering particularly how acquaintance with Nature assists RELIGION against its greatest Enemies, which are Atheism, Sadoucism, Superation, Enthusiasm, and the Humour of Disputing.

For the First, Atheism, I reckon thus, The deeper infight any Man hath into the Affairs of Nature, the more he discovers of the accurateness, and Art that is in the contexture For the Works of God-are not like the compositions of Fancy, or the Tricks of Juglers, that will not bear a clear light, or strict scrutiny; but their exactness receives advantage from the severest inspection; and he admires most, that knows most; fince the insides and remotest recesses of things have the clearest stamps of inimitable Wisdom on them, and the Artifice is more in the Wheel-work, than in the Cafe. For if we look upon any of the Works of Nature through a Magnifying Glass that makes deep Discoveries, we find still more beauty, and more uniformity of contrivance; whereas if we furvey the most curious piece of humane ingenuity by that. Glass, it will discover to us numerous Flaws, Deformities and Imperfections in our most Elegant Mechanicks: Hence I gather, That the study of God's Works, shewing us more of the riches. of Nature, opens thereby a fairer Prospect of those Treasures. of Wisdom that are lodged within it; and so furnisheth us with deeper Senses, and more Arguments, and clearer Convictions of the existence of an infinitely intelligent Being, that contrived it in so barmonious and astonishing an order.

So that if any are so brutish, as not to acknowledge him upon the view of the meer external frame of the Universe, they must yet fall down before the evidence, when Philosophy hath opened the Cabinet, and led them into the Jewel-bouse, and shewn them the surprizing variety that is there. Thus though the obvious Firmament, and the motions of the Sun and Stars, the ordinary vicissitudes of Seasons, and productions of things, the visible beauty of the great World, and the appearing variety and stress of those Parts that make up the lit-

tle one in Man, could scarce secure Galen from the danger of being an Atheist: Yet when he pryed further by Anatomical Enquiries, and saw the wonderful diversity, aptness, and order of the minutest Strings, Pipes, and Passages that are in the inward Fabrick; He could not abstain from the devournels of an Anthem of Acknowledgment. And that the real knowledge of Nature leads us by the hand to the confession of its Author, is taught us by the Holy Pen-man, who fuggefts that the visible things of the Creation declare him. The Plebeian and obvious World no doubt doth, but the Philosophical much more. So that whosoever saith, that inquiry into Nature, and God's Works leads to any degree of Atheism, gives great ground of suspicion that bimself is an Atheist; or that he is that other thing that the Royal Pfalmist calls him, that faith in bis beart there is no God. For either he acknowledgeth the Art and exactness of the Works of Nature, or he doth not; if not, he disarageth the Divine Architect, and disables the chief Argument of his existence: If he doib, and yet affirms that the knowledge of it leads to Atheism, he faith he knows not what, and in effect this, That the fight of the order and method of a regular and beautiful contrivance tends to perswade that Chance and Fortune was the Author.

But I remember I have discours'd of this elsewhere, and what I have said for Philosophy in general from its tendency to devout Acknowledgments, is not so true of any as of the Experimental and Mechanick. For the Physiology of the modern Peripatetick Schools creates Notions, and turns Nature into words of second Intention, but discovers little of its real beauty, and harmonious contrivance; so that God hath no glory from it, nor Men any Argument of his Wisdom or Existence. And for the Metaphysical Proofs, they are for the most part deep and nice, subject to Evasions and turns of Wit, and not so generally perswasive, as those drawn from the plain and sensible Topicks, which the Experimental Philosophy inlargeth and illustrates.

This then gives the greatest and fullest assurance of the Being of God, and acquaintance with this kind of Learning surnisheth us with the best Weapons to defend it. For the modern Atheists are pretenders to the Mechanick Principles, viz. those

of meer Matter and Motion; and their pretensions cannot be shamed or defeated by any so well, as by those who throughly understand that wild Systeme of Opinions These indeed perceive, that there is only Nature in some things that are taken to be supernatural and miraculous, and the shallow Naturalist sees no further, and therefore rests in Nature; But the true Philosopher shews the vanity and unreasonableness of taking up to thort; and discovers infinite Wildom at the end of the Chain of Causes. I say, If we know no further than occult Qualities, Elements, Heavenly Influences and Forms, we shall never be able to disprove a Mechanick Atheist; but the more we understand of the Laws of Matter and Motion, the more shall we discern the necessity of a mise mind to order the blind and insensible Matter, and to direct the original Motions: without the conduct of which, the Universe could have been nothing but a mighty Chaos, and mishapen Mass of everlasting Confusions and Disorders. This of the FIRST, viz. That the knowledge of Nature serves Religion against Atheism; and that it doth also,

(II.) A Gainst Sadducism. 'Tis well known that the Sadduces denyed the existence of Spirits, and Immortality of Souls; And the Heresie is sadly revived in our days

days.

^(1.) What a Spirit is; and whether there be Spirits, or not; are questions that appertain to the disquisition of Philosophy. The Holy Scripture, that condescends to the plain capacities of Men, useth the word Spirit (commonly) for the more subtile and invisible Bodies, and 'twill be difficult from thence to fetch a demonstrative proof of Spirits, in the strict Notion. That there are Angels and Souls which are purer than these gross Bodies, may no doubt be concluded from thence; But whether these are only a siner sort of Matter, or a different kind of Beings, cannot (I think) be determined by any thing delivered in the Divine Oracles. The Inquiry therefore belongs to Philosophy, which, from divers Operations in our own Souls' concludes, That there is a sort of Beings which

which are not Matter or Body, viz. Beings, self-motive, penetrable and indivisible; Attributes directly contrary to those of Matter, which is impenetrable, divisible, and veid of Selfmotion. By these Properties, respectively, the destinest nature of Spirit and Body is known; and by the same, that there are Spirits, in the strictest sence, as well as corporeal Beings.

Now by stating the Nature, and proving the Existence of Spirits, a very considerable service is done to Religion: For hereby our Notion of the adorable Deity is freed from all material grosness, in which way those must conceive him, that acknowledge nothing but Body in the World; which certainly is a very great dis-interest to his Glory, and suggests very unbecoming thoughts of him. And by the due setling the Notion of a Spirit, the conceit of the Soul's Traduction, is overthrown, which either ariseth from direct Sadducism, or a defect in Philosophy. Hereby our Immortality is undermined, and dangerously exposed: But due Philosophical Disquisition will set us right in the Theory.

For the former of the Errors mention'd, viz. the Anthropomorphite Doctrines, that make God himself a corporeal Substance; Those cannot be disproved, but by the Use and Application of the Principles of Philosophy; Since let us bring what Arguments we can from the Scriptures, which speak of the Perfection, Instinity, Immensity, Wisdom, and other Attributes of God; These no doubt will be granted; but the Query will be, Whether all may not belong to a material Being; a question which Philosophy resolves; and there is no other way to search deep into this Matter, but by those Aids.

So likewise as to the Traduction of the Soul; The Arguments from Scripture against it are very general; yea many expressions we find there, seem at first sight to look that may. And therefore this other help, Philosophy, must be used here also, and by the distinct representation which it gives of the Nature of Spirit, and Matter, and of the Operations that appertain to each, this Error is effectually consuted; which it

cannot be by any other proceeding.

Thus Philosophy befriends us against Sadducism, in the first Branch of it, as it explodes the being of Spirits.

(2.) The

(2.) The other is, the denyal of the Immortality of our Souls; The establishment of this likewise, the Students of Philosophy and God's Works have attempted in all Ages, and they have prov'd it by the Philosophical considerations of the nature of Sense; the quickness of Imagination; the spirituality of the Understanding; the freedom of the Will; from these they inser, that the Soul is immaterial, and from thence, that it is immortal; which Arguments are some of the most demonstrative and cogent that the meer reasons of Men can use; but cannot be manag'd, nor understood, but by those that are instructed in Philosophy and Nature.

I confess there are other Demonstrations of our Immortality, for the plain Understandings that cannot reach those Heights. The Scripture gives clear evidence, and that of the Resurrection of the Holy Jesus, is palpable; But yet the Philosophical Proofs are of great use, and serve for the conviction of the Insidel, to whom the other inducements are nothing; and the deeper knowledge of things is necessary to defend this great Article of Religion against such Men, since they alledge a fort of Arguments to prove the Soul to be mortal, that cannot be consuted but by a reason instructed in the Observations of Na-

· ture.

For the Modern Sadduce pretends, that all things we do, are performed by meer Matter and Motion; and confequently, that there is no fuch thing as an immaterial Being: so that when our Bodies are dissolv'd, the whole Man is destroyed and lost for ever; which dismal conclusion is true and certain, if there be nothing in us but Matter, and the refults of Motion; and those that converse but little with Nature, understand little what may be done by thefe; and so cannot be so well affured that the Elevations, Mixtures, and Combinations of them cannot be at last improv'd so far, as to make a sensible, reasoning Being; nor are they well able to disprove one, that affirms that they are actually advanc'd to that height: whereas he that hath much inquired into the Works of God and Nature, gains a clear fight of what Matter can perform, and gets more and fronger Arguments to convince him, that its Modifications and Changes cannot amount to perception and sense; fince

fince in all its Varieties, and bighest Exaltations, he finds no

Specimens of Such Powers.

And though, I confess, that all Mechanick Inquirers make not this use of their Inquisitions and Discoveries; yet that is not the fault of the Method, but of the Men; and those that have gone furthest in that way, have receded most from the Sadducean Doctrines. Among such, I suppose, I may be allowed to reckon the Noble Renatus Des-Cartes; And his Metaphyficks and Notions of Immaterial Beings, are removed to the greatest distance from all Corporeal Affections; which I mention not to declare, or fignific my adherence to those Principles; but for an Instance, to shew, that acquaintance with Matter, and the knowledge of its Operations, removes the Mind far off from the belief of those high Effects which some ascribe to Corporeal Motions; and from all suppositions of the Soul's being bodily and material.

Thus Philosophy is an excellent Antidote against Sadducism. in both the Main Branches of it. But then I must confess also, that the Philosophy of the late Peripatetick Writers doth rather assist, than overthrow this dangerous Insidelity; I mean, in what it teacheth concerning Substantial Forms, which I fear tends to the disabling all Philosophical Evidence of the Immortality of Humane Souls. For these Peripateticks make their Forms, a kind of medium between Body and Spirit, viz. Beings that are educed (as they speak) out of Matter; and are so dependent on it, that they perish utterly, or return into the bosom of the Matter, (as some cant) when they cease to inform it: But yet they allow not that those Forms are materi-

al in their essential Constitution and Nature.

This is the Peripatetick account of substantial Forms, and such they assign to all Bodies, and teach, That the noblest fort of them are sensitive and perceptive, which are the Souls of

Brutes. If this be fo, that Beings which are not Spirits, but corruptible dependants upon Matter, may be endowed with Animadversion, and Sense; what Arguments have we then to shew, that they may not have Reason also, which is but an Improvement, and higher degree of simple Perception? 'Tis as hard to be apprehended how any of the refults of Matter, should should perceive; as how they should join their Perceptions into Reasonings; and the same Propositions that prove the possibility of one, prove both; so that those who affirm that Beafts also have their degrees of true Reason, speak very consonantly to those Principles. And if such material, corruptible Forms as the Peripateticks describe, are sufficient for all the Actions and Perceptions of Beasts, I know not which way to go about to demonstrate, that a more elevated sort of them may not suffice for the reasonings of Men. To urge the Topicks of Proof, I mention'd, from Notions, Compositions, Deductions, and the like, which are alledged to prove our Souls Immaterial; I fay, to plead these, will fignifie nothing but this, That Humane Souls are no portions of Matter, nor corporeal in their formal Essence; But how will they evince, that they are not educed from it, that they depend not on Matter, and shall not perish, when their respective Bodies are dissolved. Certainly all those Arguments that are brought for our Immortality, are in this way clearly disabled. For all that we can say, will prove but this, That the Soul is no Body, or part of Matter; but this will amount to no evidence, if there are a middle kind of Esfences, that are not corporeal, and yet mortal.

So that when I say, Philosophy serves Religion against Sadducism, I would not be understood to mean the Peripatetick Hypothese's; but that Philosophy which is grounded upon acquaintance with real Nature. This, by leaving this whole unintelligible fort of Beings out of its Accounts, (as things for which there is no shadow of ground from Reason, or Nature, but good evidence of their non-existence from both) disappoints the Sadduce of the advantage he hath from this needless and precarious Principle. And by distributing Substance into Body, and Spirit, without the admission of middle Natures; the Real Philosophy gives demonstrative force to those Arguments for our Immortality, that prove our Souls

are not Bodies; and so Sadducism is ruined by it.

These things I have thought fit to advertise, not out of defign to censure any particular way of Philosophy; but for the security of my Discourse. And though I have made a little bold with the Peripateticks here, yet the great Name of Aristotle, to which they pretend, is not concerned; for I am con-

vinc'd,

vinc'd, that he taught no such Doctrine of substantial Forms, as his later Sectators and Interpreters have imputed to Him; who indeed have depraved, and corrupted his fense, (almost) in the whole Body of his Principles; and have prefented the World with their own Fancies, instead of the genuine Opinions of that Philosopher.

But I proceed.

(III.) He Real Philosophy, that inquires into God's Works, affifts Religion against Superfition, another of its fatal Enemies. That I may prove this, it must be

premised,

That Superstition confists, either in bestowing Religious Valuation and Effeem on things, in which there is no good; or fearing those, in which there is no burt: So that this Folly expresseth it self, one while in doing upon Opinions, as Fundamentals of Faith; and Idolizing the little Models of Fancy. for Divine Institutions: And then it runs away afraid of barmless, indifferent Appointments, and looks pale upon the appearance of any usual Effect of Nature. It tells ominous Stories of every Meteor of the Night; and makes fad Interpretations of each unwonted Accident: All which are the Products of Ignorance, and a narrow Mind; which defeat the Delign of Religion, that would make us of a free, manly, and generous Spirit; and indeed represent Christianity as if it were a fond, sneaking, weak and peevish thing, that emasculates Mens Understandings, making them amorous of toys, and keeping them under the servility of childish fears; so that hereby it is exposed to the distrust of larger Minds, and to the scorn of Atheists; These and many more are the mischiefs of Superstition, as we have fadly seen and felt.

Now against this evil Spirit, and its Influences, the Real, Experimental Philosophy, is one of the best Securities in the World. For by a generous and open Inquiry in the great Field of Nature, Mens minds are enlarged, and taken off from all fond adherences to their private Sentiments. They are taught by it, That Certainty is not in many things; and that the most valuable Knowledge is the practical; By which means they will find themselves disposed to more indifferency towards those petty Notions, in which they were before apt to place a great deal of Religion; and to reckon, that all that will signifie, lies in the few; certain; operative Principles of the Gospel; and a Life suitable to such a Faith; not in doting upon Questions, and Speculations that engender strife: and thus the Modern, Experimental Philosophy of God's Works, is a Remedy against the notional Superstition (as I may call it) which bath been, and is so fatal to Religion, and the peace of Mankind:

Besides which, (by making the Soul great) this Know-ledge delivers it from sondness on small Circumstances, and imaginary Models; and from little scrupulosities about things indifferent, which usually work disquiet in narrow and contracted Spirits: And I have known divers, whom Philosophy,

and not Disputes, hath cured of this Malady.

This we may observe, that those Remedies are the best, and most effectual, that alter the temper and disposition of the Mind; For 'tis suitableness to that, which makes the way to Mens Judgments, and settles them in their Perswasions. There are sew that hold their Opinions by Arguments, and dry Reasonings, but by congruity to the Understanding, and consequently by relish in the Affections: So that seldom any thing cures our intellectual Diseases, (throughly) but what changes these. And I dare affirm, that the Free, Experimental Philosophy will do this to purpose, by giving the Mind another Tincture, and introducing a sounder Habit, which by degrees will repel and cast out all Malignities; and settle it in a strong and manly Temperament, that will master and put to slight all idle Dotages, and effeminate Fears.

The Truth is, This World is a very Bedlam, and he that would cure Madmen, must not attempt it by Reasoning, or indeavour to shew the absurdity of their Conceits; but such a course must be taken, as may restore the Mind to a right Crass; and that (when it is effected) will reduce, and rectifie the extravagances of the distempered Brain, which Disputes and Oppositions will but instame and make worse. Thus, for instance, when frantick Persons are fond of Feathers, and migh-

tily.

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tily taken with the employment of picking Straws, 'twould fignifie very little, to represent to them the vanity of the Objects of their Delights; and when the Melancholist was afraid to fit down for fear of being broken, supposing himself of Glass, it had been to little purpose to have declared to him the ridiculousness of this Fears; the disposition of the Head was to be alter'd, before the particular Phrensie could be cured.

Tis too evident how just this is in the application to the present Age; Superstitious sondness, and sears are a real degree of madness. And though I cannot say that Philosophy must be the only Catholick way of Cure, (for of this, the far greatest part of Men is incapable) yet this I do affirm, that its a Remedy, for those that are strong enough to take it: and the rest must be helped by that, which changeth the Genius; and this cannot, ordinarily, be done by any thing that opposeth the particular Fancy,

Die er eine finn abnit in ener wit out However I must say, (2.) That the fort of Superstition. which is yet behind in my account, and confifts in the caullels fear of some Extraordinaries, in Accident, or Nature, is directly cured by that Philosophy, which gives fair likely hoods of their Caufer; and shews that there is nothing in them fupernatural; the light of the day drives away Apparitions, and vain Images that fancy forms in obscure shades, and darkness. Thus particularly the Modern Doctrine of Comets, which have been always great Bugbears to the guilty, and timorous World; hath rescued Philosophers from the trouble of dreadful Presages, and the mischievous Consequences that arise from those superstitious Abodings. For whatever the casual? Coincidencies may be between those Phenomena, and the direful Events, that are sometimes observed closely to attend them. (which, as my Lord Bacon truly notes, are observ'd when they bit, not when they miss) I say, notwithstanding these, the Real, Experimental Philosophy makes it appear, that they are Heavenly Bodies, far above all the Regions of Vapours, in which we are not concerned; and so they are neither the Signs, nor the Causes of our Mischiefs. of a regulately noise was real and between

And for the other little things, which afford Matter for the Tales about Prodigies, and other ominous Appearings, the knowledge of Nature, by exciting worthy and magnificent conceptions of the God of Nature; cures that blasphemous abuse of the adorable Majesty, whereby foolish Men attribute every trivial event that may serve their turns against those they hate, to his immediate, extraordinary interposal. For 'tis ignorance of God and his Works, that disposeth Men to absurd ridiculous Surmises, uncharitable Censures, seditious Machinations; and (so) to Thoughts that are prejudicial to the Glovernment; to that Justice and Charity we owe to others, and to the happiness that we seek our selves. To which I add,

That this kind of Superstition is a relique of Pagan Ignorance, which made Men look on Thunder, Eclipses, Earthquaker, and all the more terrifying Phanomena of Nature, as the immediate Effects of Powers Supernatural; and to judge Events by flights of Birds, and garbages of Cattel, by the accidental occursions of this Creature, and the other, and almost every casual occurrence. But these Particulars have been most ingeniously represented, and reproved in a late very elegant Discourse about Prodigies ; And though I do not acquiefce in the Delign of that excellently penn'd Book, which is to discredit, and take away all kinds of Presages; Yet I think it hath done rarely well, fo far as it discovers the folly and mischiefs of that ignorant and superstitions Spirit, that makes every thing a Prodigy. With such apprehensions as these, the knowledge of Nature fills those Minds that are instructed in if all softer added a lineway and questioning

And there is no doubt, but that the Antipathy the Real Philosophy bears to all the kinds of Superstition, is one cause why zealous Ignorance brands those Researches with the mark of Atheism and Irreligion. For superstitious Folly adopts those groundless Trisles, which Philosophy contemns and reproves, into the Family of Religion; and therefore reproacheth the Despiters of them, as Enemies to the Faith and Power of Godliness.

So it fared with some of the bravest Spirits of ancient times, who have had black Characters fixt upon their great and worthy

worthy Names, only for their Oppositions of the foolish Rites and Idolatries of the vulgar Heathen. We know the case of Socrates: And (as to the interest of their Names) that of Anaxagoras, Theodorus, Protagoras, and Epicurus, was much worse; the caussess infamy coming down the Stream as far as the last Ages. Since then, we know who was an Heretick for faying there were Antipodes; and a Pope was taken for a Conjurer for being a Mathematician; yea those noble Sciences were counted Diabolical; and even the Sacred Language could scarce escape the suspicion. In later times Galilas fell into the Inquisition for the Discoveries of his Telefeopes; and Campanella could not endeavour to affert, and vindicate the freedom of his Mind, without losing that of his Person.

I might come nearer to our own days, and knowledge: Gothick barbarity, and the Spirit of the Inquisition is not quite worn out of the Reformation; Though indeed it ordinarily remains but among the scum and dregs of Men: And no one is either less Religious, or less Wise for being accounted an Atheist by the common Rabble. But where-ever the knowledge of Nature, and God's Works hath in any degree obtain'd, those vile Superstitions have been despised, and put to an infamous flight. But to take another step,

(IV.) THe Real Philosophy, and knowledge of God's Works, serves Religion against Enthusiasm, another dreadful Enemy. Now Enthusiasm is a false conceit of Inspiration; and all the bold and mistaken Pretentions to the Spirit in our days, are of this fort. What particularly Religion hath fuffer'd from it, would be too long to reckon upon. this occasion; It will be enough to fay, in an Age that hath so much and such sad experience of it, That Enthusiasm hathintroduced much phantastry into Religion, and made way for all imaginable Follies, and even Atheism it self; which it hath. done two ways. (1.) By crying up the Excesses and Difeases of Imagination for the greatest height of Godlines ; And (2.) By the disparagrment of Sober Reason, as an Enemy to the.

the Principles of Faith. And Philosophy assists Religion.

against both these.

FOR the first in order; The real knowledge of Nature detects the dangerous imposture, by shewing what strange things may be effected by no diviner a cause than a strong Fancy impregnated by Heated Melancholy; For this sometimes warms the Brain to a degree that makes it very active and imaginative, full of odd Thoughts, and unexpected Suggestions; so that if the Temper determine the Imagination to Religion. it flies at high things, at interpretations of dark and Prophetick Scriptures; at Predictions of future Events, and mysterious Discoveries, which the Man expresseth fluently and boldly, with a peculiar and pathetick Eloquence; which pregnances being not ordinary, but much beyond the usual tone and temper of the Enthusiast; and he having heard great things of the Spirits immediate Motions and Inspirations, cannot well fail of believing himself inspired, and of intitling all the excursions of his Fancy to the immediate Actings of the Holy Ghoft: and those thoughts by the help of natural pride and self-love, will work also exceedingly upon the heightned Affections, and they upon the Body so far, as to cast it sometimes into Raptures, Extasies, and Deliquiums of Sense, in which every Dream is taken for a Prophesie, every Image of the Fancy for a Vision, and all the glarings of the Imagination for new Lights and Revelations ...

Thus have our Modern Prophets been inspired by Temper and Imagination, and not by Design only; For we may not think they are all Hypocrites and knowing Impostors; No, they generally believe themselves, and the strength of their highly invigorated Fancies shuts out the sober Light of Reason that should disabuse them, as sleep doth that of our External Senses in our Dreams. And the silly People that understand not Nature, but are apt to take every thing that is vehement to be sacred, are easily deceived into the belief of those Pretensions; and thus Diseases have been worship'd for Religion. This account the Philosophy of Humane Nature gives of that, by

which the World hath been so miserably abused.

And when we cast our eyes abroad, we may plainly see that those glorious things are no more, than what hath been done

by the Extatick Priests of the Heathen Oracles, and the Madmen of all Religions; by Sybils, Lunaticks, Poets, Dreamers, and transported Persons of all sorts: And it may be observed daily to what degrees of elevation excess of drinking will heighten the Brain, making some witty, nimble, and eloquent, much beyond the ordinary proportion of their Parts and Ingenuity; and inclining others to be hugely devout, who usually have no great sense of Religion; As I knew one, who would pray rapturously when he was drunk, but at other

times was a moping Sot, and could scarce speak sense.

Thus also some kinds of Madness, Diseases, Accidents, Peculiarities of Temper, and other natural things that hear the Brain, fill Men with high surprizing Conceits about Religion, and furnish them with fervid Devotion, great readiness of Expression, and unexpected applications of Scripture to their crasty Conceits; I say, the Experimental Philosophy of our Natures informs us, that all this is common in alienations, and fingularities of Mind and Complexion. And they were remarkable in the Prophets of the Heathen, and the Priest whom Saint Austin knew, that would whine himself into an Extasie; In the wonderful Discourses of the American Bishop, that said he was the Holy Ghost, and the canting fluency of the German Enthulialts, some of whose Imaginations were as wild and extravagant; of such Instances I might make up a much larger Catalogue, if I should descend to our Domestick Lunaticks, but their temper is well known, and therefore I only add this more;

That I have often met with a poor Woman in the North, whose habitual conceit it was, That she was Mother of God, and of all things living; I was wont to personate a kind of complyance with her Fancy, and a modest desire to be surther informed about it; which gentleness drew from her so many odd setches of Discourse, such applications of Scripture, and such wonderful references to Things, in which she was never instructed, that look'd like gleanings out of Hobbs and Epicurus, that I have been much amazed at her talk: And yet when I diverted her to any thing else of ordinary Matters, she spoke usually with as much sobriety and cold discretion, as could well be expected from a Person of her Condition;

nor did she use to be extravagant in any thing, but about that particular Imagination; which Instance among many others I might produce, very much confirms me in the truth of that Observation of those Philosophers who have given us the best light into the Enthusiastick Temper, viz. That there is a sort of madness, which takes Men in some particular things, when they are sound in others: which one Proposition will afford a good account of many of the Phanomena of Enthusiasm; and shews that the Extravagants among us may be really distracted in the Affairs of Religion, though their Brains are untouc'd in other Matters.

Thus a Philosophical use of observation, and the knowledge of Humane Nature by it, helps us to distinguish between the Effects of the adorable Spirit, and those of an hot distemper'd Fancy; which is no small advantage for the securing the Purity, Honour, and all the interests of Religion.

But (2.) there is another mischief of the Enthusiastick Spirit behind, and that is its bringing Reason into disgrace, and denying the use thereof in the Affairs of Faith and Religion: This is an evil that is the cause of many more; for it hath brought into the World all kinds of Phantastry and Folly. and exposed Religion to Contempt and Derision, by making Madness and Diseases Sacred: It leads Mens Minds into a maze of confused Imaginations, and betrays them into Bogs and Precipices, deprives them of their Light and their Guide, and lays them open to all the Delufions of Satan, and their own distemper'd Brains: It takes Religion off from its Foundations, and leaves the Interest of Eternity in Mens Souls, to Chance, and the Hits of Imagination; teaching those that are deluded to lay the stress of all upon Raptures, Heats, and Mysterious Notions, while they forget and scorn the plain Christianity which is an imitation of Christ in Charity, Humility, Justice, and Purity; in the exercise of all Vertue, and command of our felves: It renders Men obnoxious to all the Temptations of Atheism, and the blackest Insidelity; and makes it impossible to convince an Infidel, to settle one that doubts, or to recover one that is fallen off from the Faith. These Evils I am content only to name in this place, having reprerepresented them more fully in another Discourse; and the experience of our own Age may convince us, with a little consideration upon it, That all those fatal Mischies have been the Effects of the Contempt, and Disparagement of Rea-

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But vet though I affirm this, I am not so rash, or so unjust as to believe, or fay, That this Spirit hath produced all those fad things in every one that speaks botly, and inconsiderately against Reason: I am far from the wildness of such a censure. because I know how much imprudent Zeal, customary Talk, high Pretentions, and Superstitious Fears, may work even upon bonest Minds, who many times hold bad things in the Principle, which they deny in the Practice, and to are upright in their Wills, while they are very much confused, and mistaken in their Understandings. This I account to be the case of multitudes of pious People in reference to Rezfon. They have heard hot-headed indifcreet Men declaim against it, and many of them, whose Opinions will not bear the Light, have an interest to do so; Their Pretensions were plaufible, and their Zeal great; their Talk loud, and their Affirmations bold; and the honest well-meaning Folks are caught in their Affections; and these lead bad Principles into their Minds, which are neither disposed, nor able to examine: So they believe and speak after their Teachers; and fay, That Reason is a low, dull thing, ignorant of the Spirit, and an Enemy to Faith and Religion; while in this they have no clear thoughts, nor yet any evil meaning; But let these Fancies swim a-top in their Imaginations, and upon occasions they run out at the Tongues end, though they are not always improved to those deadly Practices. For Charity and Caution I have faid this; but yet nothing hinders but that all the forecited Evils are justly said to be the Tendencies, and in too many Instances have been, and are the Effects of this Spirit.

And now I doubt not but 'twill be granted readily by all confidering Men, that whatever affifts Religion against this destructive Enemy, doth it most important service; and this the Free and Real Philosophy doth in a very eminent descree.

In order to the proof of this, we may consider what I intimated just now, viz. That Men are led into, and kept in this Fancy of the Enmity of Reason to Religion, chiefly by two things:

(1.) By an implicit affent to the Systemes and Dictates of those who first instructed them; And (2.) By desect in clearness of Thoughts, and the ability to state things distinctly, and to understand their Dependencies and Sequels; Both

which Imperfections the Free Philosophy cures.

For as to the First, (1.) That Philosophy begins with the inlargement of the Mind, and attempts to free it from Prejudices and Pre-ingagements, which sophisticate and pervert our Judgments, and render us incapable of discerning Things as they are. Modest, impartial enquiry is the Foundation of the real, experimental way of Philosophy. Not that it teacheth Scepticism and Neutrality in all Things, but this Caution in our Disquisitions, That we do not suddenly give firm assents to Things not well understood or examin'd: which no doubt is very just and safe. But as to what concerns those, who through ignorance, or other occasions, are incapable of making due enquiry, I think they ought not to concern themfelves about Matters of Speculation at all; or at least not to affirm any thing positively about them. 'Tis enough for such to believe and practife the plain Duties of Religion, which are clear in the Holy Oracles, and with which they may be acquainted without much sagacity, or deep Judgment: For Matters of Theory, and difficult Enquiry, appertain not to the vulgar and lower rank of Understandings: But for those who are capable of fearch after Truth, and are provided with anvantages for it, Freedom of Judgment is necessary in order to their success. With this, I said, the Real Philosophy begins; and in all its progresses still more and more disposeth the Mind to it, and so delivers it from the vassalage of Customary Sayings and Opinions.

And now whoever is so disposed, will not be so ready to believe that Reason is an Enemy to Religion, till he have consider'd, and examin'd the Matter with an impartial Judgment: And I dare say, whoever shall do that, will want nothing to convince him, that such an Opinion is salse and groundless,

but clear and distinct Thoughts, and the knowledge of Confequence, with which Philosophy will furnish him.

This is the fecond way whereby it helps to overthrow this

Principle of Enthusiasm, viz.

(2.) By teaching us to state Matters clearly, and to draw out those conclusions that are lodged in them. For 'tis confufion of Notions, and a great defect in reasoning, that makes dark Zeal to rave to furiously against Reason. Now Philosophy is Reason methodiz'd, and improved by Study, Observation, and Experiment; and whoever is addicted to these, is exercifed frequently in inquiry after the Gauses, Properties, and Relations of Things, which will inure the Mind to great intentness, and inable it to define and distinguish, and infer rightly; And by these the Allegations against Reason will be made appear to be idle Sophisms, that have no found sense or substance in them.

And though the Discourses of some, who have talk'd much of Philosophy and Reason, have been sometimes bold and sawcy, and opposite to the Interests of Religion: Yet true Philofophy, and well manag'd Reason, vindicate Religion from those abuses, and shew, that there was Sophistry and imposture in: those Pretensions: So that they are no more to be blamed for the Insolencies and Riots of those that usurp their Name, than Religion it felf is, for the Immoralities of fuch as cloath themfelves in the Garments of external Piety and Saintship. Thus: of the services of Philosophy against ENTHUSIASM. I come now to the last Instance.

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(V.) TT helps Religion against the Humour of Disouting; By which I mean that evil Genius, that makes Men confident of uncertain Opinions; and clamoroufly contentious against every different Judgment. This is that pestilent Spirit that turns Religion into Air of Notion, and makes it intricate and uncertain; subject to eternal Quarrels, and Obnoxious to Scepticism and Infidelity; That which supplants Charity, Modelty, Peace, and Meekness; substituting in their room, Rage and Insolence, Pride and Bitten Zeal, Clamours and Divisions, and all the Opposites of the Spirit of Christ, and the Gospel. So that, it depraves Religion, and makes its Sacred Name an Instrument to promote the Projects of the Kingdom of Darkness; by envenoming Men one against another, and inflaming their Spirits, and crumbling them into Sects, and disturbing Societies; and so it hinders the Progress of the Gospel, and lays it open to the scorns of Unbelievers; it turns Men from the defire of practifing, to the itch of talking, and abuses them into this dangerous belief, That Godlinels consists more in their beloved Orthodoxy, than in a fober Vertue, and the exercise of Charity; it makes them pert and pragmatical? bufie about the Reformation of others, while they neglect their own Spirits; fancying a perfection in the fluency of the Tongue, while the worst of Passions have the Empire of their Souls. These are some of the sad Effects of the Humour of Disputing, which hath done deplorable execution upon Religion in all Places and Times; and therefore 'tis none of the least Services that can be afforded it, to destroy this evil Genius; and there is nothing, meerly humane, that contributes more towards the rooting of it out of the World, than the Free and Real Philosophy. For,

(1.) An intimate Commerce with God's Works, gives us to see the mighty Difficulties that are to be met in the speculation of them; and thereby Men are made less confident of their Sentiments about Nature, and by many Considerations and Observations of this kind, are at length brought to such an babitual Modesty, that they are afraid to pass bold Judgments

upon those Opinions in Religion, of which there is no infallible affurance.

And (2.) By the frequent exercises of our Minds, we come to be made sensible how easily, and how oft we are deceived, through the fallibility of Sense, and shortness of our Understandings; by Education, Authority, Interest, and our Affections; and so are disposed to a more prudent coldness and diffidence in things of doubtful Speculation, by which the Disputing Humour is destroyed at the bottom. Besides

which,

(3.) The Real Philosophy brings Men in love with the Practical Knowledge: The more we have imployed our felves in Notion and Theory, the more we shall be acquainted with the uncertainty of Speculation; and our esteem, and love of Opinions will abate, as that sense increaseth: By the same degrees our respect and kindness for Operative knowledge will advance, and grow; which disposition will incline us also to have less regard to Nicities in Religion, and teach us to lay out our chief Cares and Endeavours about Practical and certain Knowledge, which will affift and promote our Vertue, and our Happiness; and incline us to imploy our selves in living according to it; And this also will be an effectual means to destroy the Humour of Contending.

(4.) Philosophy gives us a fight of the Causes of our Intellectual Diversities; and so lessens our expectation of an Agreement in Opinions; and by this, it discovers the unreasonablenels of making confent in less certain Tenents, the condition of Charity and Union; and of being angry, and dividing upon every difference of Judgment; By which the buriful Malignities of Disputes are qualified, and the Disease it self is

undermined.

(5.) It inclines Men to place the Essential Principles of Religion only in the plain, and certain Articles. For Philofophers are disposed to think, that Certainty is in a little room: And whoever believes so, concerning the Tenents of Theology, will not lay the main stress upon any, but the clear acknowledg'd Principles; by which prudent Caution he serves all the important Concernments of Religion. He will not prangle for every Conceit; nor divide for every Difference; but takes care

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care to walk in the ways of Charity and Obedience; And so the Church is safe, and Schisms are prevented and cured.

(6.) The Real Philosophy ends many Disputes, by taking Men off from unnecessary Terms of Art, which very often are the chief occasions of the Contests: If things were stated in clear and plain words, many Controversies would be ended; and the Philosophy I am recommending, inclines Men to define with those that are simplest and plainest; and thereby also it very much promotes the Interests both of Truth and Peace.

In fum, I fay, the Free and Real Philosophy makes Men deeply sensible of the Infirmities of Humane Intellect, and our manifold hazards of mistaking, and so renders them wary and modest, diffident of the certainty of their Conceptions, and averse to the boldness of peremptory afferting. So that the Philosopher thinks much, and examines many things, separates the Certainties from the Plausibilities, that which is presumed from that which is prov'd; the Images of Sense, Phansie, and Education, from the results of genuine and impartial Reason. Thus he doth before he Assents or Denies; and then he takes with him also a Sense of his own Fallibility and Defects. and never concludes but upon resolution to alter his Mind upon contrary Evidence. Thus he conceives warily, and he speaks with as much caution and referve, in the humble Forms of [So I think, and In my Opinion, and Perhaps 'tis [02-] with great difference to opposite Perswasion, candour to Diffenters, and calmness in Contradictions, with readinels and desire to learn, and great delight in the Discoveries of Truth, and Detections of his awn Mistakes. he argues he gives his Reasons without Passion, and shines without flaming, Discourses without wrangling, and differs without dividing. He catcheth not at the Infirmities of his Opposite, but lays hold of his Strength, and weighs the Substance without blowing the dust in his eyes. He entertains what he finds reasonable, and suspends his Judgment when he doth not clearly understand. This is the Spirit with which Men are inspired by the Philosophy I recommend. them so just, as to allow that liberty of Judgment to others, which themselves defire, and so prevents all imperious Distates. and Imposings, all Captions Quarrels and Notional Wars. And that

that this is the Philosophick Genius, may be shewn in a grand Instance, the ROYAL SOCIETY, which is the Great Body of Practical Philosophers. In this Assembly, though it be made up of all kinds of Dispositions, Professions, and Opinions; yet hath Philosophy so rarely temper'd the Constitution. that those that attend there, never see the least inclination to any unhandsome opposition or uncivil reflexion, no bold obtrusions or confident sayings. The forbearing such Rudenesses is indeed a Law of that Society, and their Defigns and Methods of Inquiry, naturally form Men into the modest temper, and fecure them from the danger of the Quarrelsome Genius. This is palpable evidence of the freet Humour, and ingenious Tendencies of the Free Philosophy; and I believe 'twill be hard to shew such another Example in any so great a Body of differing Inclinations and Apprehensions. Thus the Experimental Learning rectifies the grand Abuse, which the Notional Knowledge hath so long foster'd and promoted, to the hinderance of Science, the disturbance of the World, and the prejudice of the Christian Faith. And there is no doubt, but as it hath altered and reformed the Genius in Matters of Natural Refearch and Inquiry; so it will in its progress dispose Mens Spirits to more Calmness and Modesty, Charity and Prudence in the Differences of Religion, and even Silence Disputes there. For the free sensible Knowledge tends to the altering the Crafis of Mens Minds, and so cures the Disease at the Root; and true Philosophy is a Specifick against Disputes and Divisions.

To confirm which we may observe further, That whereever this sort of Knowledge prevails, the Contentious Divinity loseth ground; and 'twill be hard to find any one of those Philosophers, that is a zealous Votary of a Sect: which reservedness doth indeed give occasion to Sectaries, and Bigotts to accuse them of Atheism and Irreligion: But it really is no Argument of less Piety; but of more Consideration and Knowledge. And 'twould make much for the advantage of Religion, and their own, if those sierce Men would understand, that Christianity should teach them that, which they

rail against in the Philosophers.

But now I must expect to hear,

(I.) That Disbutes serve to discover Truth; as latent Fire is excited, and disclosed by the collision of hard Bodies: Sothat the Pretence is, That Philosophy doth, on this account,

rather differve than promote the Interests of Religion.

To this, I Answer, (1.) That all the necessary, material Truths in Divinity are already discover'd; and we have no need of New Lights there, the Ancientest are truest and best; though in the disquisitions of Philosophy, there will be always occasions of proceeding. I add, (2.) Disputes are one of the worst ways to discover Trub; If new things were to be found out in Religion, as well as Nature, they would scarce be disclosed by this way of Enquiry. A calm Judgment, and distinct Thoughts, and impartial Consideration of many things, are necessary for the finding Truth; which lies deep, and is mingled up and down with much Error, and specious falshood; and 'tis hard, if not utterly impossible, to preserve any one of these in the beat of Disputation: In such Occasions, the Mind is commonly difordered by Paffion, and the Thoughts are confused, and our Considerations tyed to those things which give colour to our Opinions. We are biast by our Affections towards our own Conceits; and our love to them is inflamed by opposition; we are made incapable of entertaining the affishance of our Opposites Suggestions by strong prejudice, and inclined to quarrel with every thing he faith by spight, and defire of triumph: and these are ill Circumstances for the discovery of Truth: He is a wonderful Man indeed that can thread a Needle when he is at Cudgels in a crowd; and yet this is as easie, as to find Truth in the hurry of Disputation. The Apostle intimates, 1 Tim. 6. 5. That perverse Disputers are destitute of Truth; and tells us, That of the strife of words come envy, railings, evil surmifings, but no discovery of unknown Verities.

But (II.) we are told, in favour of Disputes in Religion. That we are to centend earnestly for the Faith that was once delivered to the Saints; and hereby Herefies are faid to be confuted and overthrown: So that the disabling and suppressing of Disputes, Disputes, seems to be a weakening, rather than any advantage

to Religion, and the Concernments of it.

To this, I say, That by the Faith we are to contend for, I conceive, the Essentials, and certain Articles are meant; These we may, and we ought, to endeavour to defend and promote, as there is occasion; and we have seen, how the Real Philosophy will help our Reasons in that Service. But pious Contentions for these, are not the disputings of which I am now discoursing, those are stiff Contests about uncertain Opinions: And such I dare very boldly say, are no Contentions for the Faith, but the Instruments of the greatest mischiefs to it. As for those other Disputes that are used to convince Men of the Truths of the Gospel, and the great Articles thereof; and for the disproving Insidelity and Heresie; they are necessary, and Philosophy is an excellent help in such Contests.

So that those other Objections pleadable from the necessity of proving and trying our Faith, and convincing Hereticks; From the Example of our Saviour's disputing with the Doctors and the Sadduces, and of St. Paul at Athens with the Jems; These, and such other little Cavils, can signific nothing to the disadvantage of what I have said about the Humour of Disputing, in Matters of doubtful and uncertain Opinions; against

which the Real Philosophy is an Antidote.

And thus I have shewn, under sive material Heads, That the knowledge of Nature, and the Works of God, promotes the greatest Interests of Religion; and by the three last it appears how sundamentally opposite it is to all Schism and Fanaticism, which are made up and occasioned by Superstition, Enthusiasm, and ignorant, perverse Disputings. So that for Atheists, and Sadduces, and Fanaticks, to detest and inveigh against Philosophy, is not at all strange; 'Tis no more than what may well be expected from Men of that fort; Philosophy is their Enemy; and it concerns them to disparage and reproach it: But for the Sober and Religious to do any thing so unadvised, and so prejudicial to Religion, is wonderful and deplorable: To set these right in their Judgment about Philosophical Inquiry into God's Works, is the Principal design of these

these Papers; and in order to the further promoting of it, I advance to the last Head of Discourse proposed, viz.

(IV.) That the Ministers and Professors of Religion ought not to discourage, but promote the knowledge of Na-

ture, and the Works of its Author.

This is the refult of the whole Matter, and follows evidently upon it. And though it will not infer a necessity of all Mens deep search into Nature, yet this it will, That no Friend or Servant of Religion should hinder or discountenance such Inquiries: And though most private Christians, and some publick Ministers, have neither leisure nor ability to look into Matters of natural Research and Inquisition; yet they ought to think candidly, and wish well to the endeavours of those that bave; and 'tis a fin and a folly either in the one or other to censure, or discourage those worthy Undertakings. So that I cannot without trouble, observe how apt some are, that pretend much to Religion, and some that minister in it, to load those that are studious of God's Works, with all the edious Names that contempt and spight can suggest; The Irreligion of which injurious carriage, nothing can excuse but their ignorance; And I will rather hope that they neither know what they fay, nor what they do, than believe that they have any direct defign against the Glory of their Maker, or against any, laudable endeavours to promote it.

I know well what mischief Prejudice will do, even upon Minds that otherwise are very bonest, and intelligent enough. And there are many common slanders, and some plausible Objections in the Mouths of the Zealous against Philosophy, which have begot an ill Opinion of it in well-meaning Men, who have never examined things with any depth of Inquiry. For the sake of such, I shall produce the most considerable Allegations of both sorts, and I hope make such returns to them, as may be sufficient to satisfie those whose Minds are not barr'd

by Obstinacy, or Ignorance.

I speak first of the bold and broad Slanders, among which,

(I.) Of Atherim is one of the most ordinary; But certainly 'tis one of the most unjust Accusations that Malice and Ignorance could have invented. This I need not be industrious to prove here, having made it appear, that Philosophy is one of the best Weapons in the World to defend Religion against it; and my whole Discourse is a consutation of this

envious and foolish charge.

Concerning it I take notice, That Philosophical Men are usually dealt with by the Zealows, as the greatest Patrons of the Protestant Cause are by the Sects. For as the Bishops and other Learned Persons, who have most strongly oppugned the Romish Faith, have had the ill luck to be accused of Popery themselves; in like manner it happens to the humblest and deepest Inquisitors into the Works of God, who have the most and fullest Arguments of his Existence, have raised impregnable Ramparts, with much industry and pious pains against the Atheifts, and are the only Men that can with fuccess serve Religion against the Godless Rout; These, Superstitious Ignorance hath always made the loudest out-cry against, as if themselves were guilty of that which they have most happily oppugned and defeated. And the certain way to be esteemed an Atheist by the fierce and ignorant Devoto's, is to study to lay the Foundations of Religion sure, and to be able to speak groundedly and to purpose against the desperate Cause of the black Conspirators against Heaven. And the greatest Men that have imploy'd their Time and Thoughts this way, have been pelted with this Dirt, while they have been labouring in the Trenches, and indeavouring to secure the Foundations of the Holy Fabrick.

But besides I observe, That narrow, angry People take occasion to charge the freer Spirits with Atheism, because they move in a larger Circle, and have no such fond adherence to some Opinions which they adore and count Sacred. And for my own part, I consess I have not Superstition enough in my Spirit or Nature, to incline me to doat upon all the Principles I judge true, or to speak so dogmatically about them as I perceive ceive confident and disputing Men are wont. But contenting my self, with a firm assent to the few practical Fundamentals of Faith, and having fix'd that end of the Compass, I defire to preserve my Liberty as to the rest, holding the other in such a posture, as may be ready to draw those Lines, my Judgment informed by the Holy Oracles, the Articles of our Church, the Apprehensions of wife Antiquity, and my particular Reason, shall direct me to describe. And when I do that, 'tis for my felf, and my own satisfaction; but am not concern'd to impose my Sentiments upon others: nor do I care to endeavour the change of their Minds, though I judge them millaken, as long as Vertue, the Interests of Religion, the Peace of the World and their own are not prejudiced by their Errors. By this modelt indifference I secure Charity for all the diversities of Belief, and equally offer my Frienship and Converses to the several Sects and Perswasions, that stick to the plain Principles of the Gospel and a Vertuous Life, overlooking their particular fondnesses and follies. This is the temper of my Genius, and this some warm People, who have more Heat than Light, are apt to call Scepticism and cold Neutrality: But that it deserves better Names, I have made appear in some other Papers.

True it is, That the Men of the meer Epicurean fort, have left God, and Providence out of their Accounts; But other Philosophers have shewn what Fools they are for doing so, and how absurd their pretended Philosophy is in supposing things to have been made and ordered by the casual hits of Atoms, in a mighty Void. And though their general Doctrine of Matter and Motion be exceeding ancient, and very accountable; when we suppose Matter was at first created by Almighty Power, and its Motions ordered, and directed by Omniscient Wisdom; Yet the supposal, that they are independent and eternal, is very precarious and unreasonable. And that all the regular Motions in Nature should be from blind tumultuous jumilings, intermixtures, is the most unphilosophical Fansie, and ridiculous Dotage in the World; So that there is no reason to accuse Philosophy of a Fault, which Philosophy sufficiently shames and reproves; and yet I doubt too many have entertain'd great prejudice against it upon this score; and 'tis a particular brand upon some of the modern Men, that they have revived the the Philosophy of Epicurus, which they think to be in its

whole extent Atheistical and Irreligious.

To which I fay, that the Opinion of the World's being made by a fortuitous concurrence of Atoms, is impious and vile: And this those of Epicurus his Elder School taught: Whereas the late Restorers of the Corpuscularian Hypothesis hate, and despise the wicked and absurd Doctrine; But thus far they think the Atomical Philosophy reasonable, viz. as it teacheth, That the Operations of Nature are performed by Subtile streams of minute Bodies; and not by I know not what imaginary Qualities and Forms: They think, That the various Motions and Figures of the parts of Matter, are enough for all the Phænomena, and all the varieties, which with relation to our Senses we call such, and such Qualities. But then they suppose, and teach, That God created Matter, and is the lupreme Orderer of its Motions, by which all those Diversities are made: And hereby Piety, and the Faith of Providence is fecured.

This, as far as we know any thing of elder Times, was the ancient Philosophy of the World, and it doth not in the least interfere with any Principle of Religion. Thus far I dare say I may undertake for most of the Corpuscularian Philosophers of

our times, excepting those of M. Hobbes his way.

And therefore I cannot but wonder at a late Reverend Author, who feems to conclude those Modern Philosophers under the name and notion of such Somatists, as are for meer Matter and Motion, and exclude immaterial Beings: whereas those Learned Men, though they own Matter and Motion as the material and format causes of the Phanomena; They do yet acknowledge God's Efficiency, and Government of all Things. with as much seriousness; and contend for it with as much zeal, as any Philosophers or Divines whatsoever. And 'tis very hard that any number of Men should be exposed to the fuspicion of being Atheists; for denying the Peripatetick Qualities and Forms; and there is nothing else overthrown by the Corpufcularian Doctrines, as they are managed by those Philofophers. So that methinks that Reverend Person hath not dealt so fairly with the great Names of Des-Cartes, and Gafsendus, where he mentions them promiseuously with the meer.

meer Epicurean and Hobbian Somatists, without any note to distinguish them from those Sadduces; For both those celebrated Men have laboured much in afferting the Grand Articles of Religion against the Insidel and Atheist.

But (2.) 'tis alledg'd by some, Philosophy disposeth Men to despise the Scriptures; or at least to neglect the study of them; and therefore is to be flighted, and exploded among Christians.

To this I fay, That Philosophy is the knowledge of God's Works; and there is nothing in God's Works that is contrary to bis Word; How then should the study of the one incline Men to despise the other? Certainly had there been any such impious tendency in searching into God's Works to the lessening of our value of the Scriptures, The Scripture it self would never have recommended it so much unto us; Yea, this is so far from being true, that on the contrary, the knowledge of God's Works tends in its proper nature to dispose Men to love and veneration of the Scriptures; For by familiarity with Nature, we are made sensible of the Power, Wildom, and Goodness of God, fresh Instances of which we shall find in all things; And 'tis one great design of the Scripture to promote the Glory of these Attributes: How then can he, that is much affected with them, chuse but love, and esteem those Holy Records which so gloriously illustrate the Perfections he admires?

Besides, by inquiry into God's Works, we discover continually, how little we can comprehend of his Ways and Menagements; and he that is sensible of this, will find himself more inclined to reverence the declarations of his Word, though they are beyond his reach, and though he cannot fathem those Mysteries, he is required to believe: Such a disposition is necessary for the securing our Reverence to the Divine Oracles, and Phi-

lesophy promotes it much.

So that, though 'tis like enough, there may be those that pretend to Philosophy, who have less veneration and respect for the Scripture than they ought, yet that impious disesteem of those facred Writings, is no effect of their Philosophy, but of their corrupt and evil Inclinations: And to remove the scandal brought upon Natural Wisdom by those Pretenders, it

may

may be observed, that none are more earnest, or more frequent in the proof and recommendation of the Authority of Scripture, than those of Philosophical Inclination and Genius, who by their publick Capacity and Profession, have the best opportunities to give testimony to the Honour of that Divine Book.

But to justifie the imputation of the disservice Philosophy doth Religion, and the Scriptures, it may by some be plea-

ded,

That Philosophy, viz. that which is called, the new, teacheth Doctrines that are contrary to the Word of God; or at least such as we have no ground from Scripture to believe; For instance, That the Earth moves: and, That the Moon is of a Terrestrial Nature, and capable of Inhabitants: which Opinions are presumed to be impious, and Antiscriptural.

In return to this, I say,

(1.) In the general; 'Tis very true, that Philosophy teacheth many things which are not revealed in Scripture; for this was not intended to instruct Men in the Affairs of Nature; but its Design is, to direct Mankind, and even those of the plainest Understandings, in Life and Manners; to propose to us the way of Happiness, and the Principles that are necessary to guide us in it; with the several Morives and Incouragements that are proper to excite our Endeavours, and to bear them up against all Difficulties and Temptations. fay, was the chief Delign of that Divine Book; and therefore'tis accommodated, in the main, to the most ordinary capacities, and speaks after our manner, suitably to sense, and vulgar Conception. Thus we find that the Clouds are called Heaven, the Moon one of the greater Lights, and the Stars mentioned, as less considerable: and the Stars also, Gen. 1. We read of the going down of the Sun, and of the ends of the Earth, and of the Heavens; and divers other fuch Expressions are in the Scriptures, which plainly shew, That they do not concern themselves to rectifie the Mistakes of the Vulgar, in Philosophical Theories, but comply with their InfirInfirmities, and speak according as they understand. So that,

(2.) No Tenent in Philosophy ought to be condemned and exploded, because there may be some occasional Savings in the Divine Oracles, which feem not to comport with it; And therefore the Problems mentioned, concerning the Motion of the Earth; and Terrestrial Nature of the Moon, ought to be left to the Disquisitions of Philosophy: The Word of God determines nothing about them; for those Expressions, concerning the running of the Sun, and its standing still, may very wellbe interpreted, as spoken by way of accommodation to Sense, and common apprehension; as 'tis certain, that those of its going down, and running from one end of the Heavens to the other, and numerous resembling Sayings, are so to be understood. And when 'tis else-where said, That the Foundations of the Earth are so fixt, that it cannot be moved at any time, or to that purpose; 'Tis supposed, by Learned Men, that nothing else is meant but this, That the Earth cannot be moved from its Centre, which is no prejudice to the Opinion of its being moved upon it.

For the other Hypothesis of the Moon's being a kind of Earth; the Scripture hath said nothing of it, on either hand; nor can its silence be argumentative here, since we know, That all Mankind believes many things, of which there is no mention there: As that there are such places as China, and America, That the Magnet attracts Iron, and directs to the North, and that the Sea hath the motion of Flux, and Ressur, with ten thousand such other things discovered by Experience, of which there is not the least hint in the Sacred Volume: And are not these to be believed, till they can be proved from Scripture? This is ridiculously to abuse the Holy Oracles, and to extend them beyond their proper Business and Design.

To argue against this Supposal, as some do, by Queries, What Men are in that other Earth? Whether fallen? and how saved? is very childish and absurd. He that holds the Opinion, may confess his ignorance in all these things, without

any prejudice to his Hypothesis of the Moon's being habitable; or the supposal of its being assually inhabited. For that may be, though no living Man can tell the Nature and Condition of those Creatures.

But for my part, I affert neither of these Paradoxes; only I have thought sit to speak thus briefly about them, that they may be lest to the freedom of Philosophical Inquiry, for the Scripture is not concerned in such Queries. And yet besides this, which might suffice to vindicate the Neoterick Philosophy, from the charge of being injurious to the Scripture in such Instances, I add,

(3.) The Free Experimental Philosophy which I recommend, doth not affirm either of those so much dreaded Propositions: For neither of them hath sufficient evidence to warrant peremptory and dogmatical Assertions: And therefore, though perhaps some of those Philosophers may think, they have great degrees of probability, and are sit for Philosophical Consideration; Yet there are none, (that I know) who look on them as Certainties, and positive Truths: 'Tis contrary to the Genius of their way; to dogmatize for things of so great an uncertainty; or to be considered against them, where there wants sull proof to assure the Negative. But whether the one be true, or the other, Religion and the Scriptures are not at all concerned.

Thus briefly of the Slanders that are affixt upon Philosophy, viz. of its Tendency to Atheism, and disparagement of the Scriptures. The other lesser ones are answered in the discussional and the state of the state

on of these.

But besides the foul and flanderous Imputations, sassand on Philosophy; there are some vulgar plausibilities pretended; the chief of which I shall now recite and answer; 'Tissaid,

(I.) There is too much curiosity in those Inquiries; and St. Paul desired to know nothing but Christ, and him cruci-

fied.

To which I answer, That what is blameable curiosity in things not worth our pains, or forbidden our scrutiny, is Duty, and landable endeavour in Matters that are weighty, and permitted to our search. So that no ill can justly be fastned upon Philosophical Inquisitions into Nature, on this account, till it be first proved, That a diligent observance of God's Goodness and Wisdom in his Works, in order to the using them to his Glory, and the benefit of the World, is either prohibited

or impertinent.

There is indeed such a depth in Nature, that it is never like to be throughly fathomed; and such a darkness upon some of God's Works, that they will not in this World be found out to Perfection: But however, we are not kept off by any expressiones of Prohibition; Nature is no Holy Mount that ought not to be touched; yea, we are commanded, To search after Wisdom, and particularly after this, when we are so frequently called upon to celebrate our Creator for his Works; and are encouraged by the success of many that have gone before; Formany shall go to and fro, and Science shall be increased. So that our Iniquiries into Nature are not forbidden; and he that saith they are frivolous, and of nouse, when the Art of the Omniscient is the Object, and his Glory, and the good of Men, the end, asperseth both the Creator and the Creature, and contradicts his duty to both.

As for the latter clause of the Objection, which urgeth that Speech of St. Paul, of his desiring to know nothing but Christ and him crucified, I Cor. 2. 2. I return to it, That he that shall duely consider the Discourse of the Apostle in the verse

before,

before, and those that succeed, will perceive, That in this expression he only slights the affected Eloquence of the Orators and Rhetoricians; He spoke in plainness and simplicity, and not in those inticing words of Man's Wisdom, which he defired either not to know at all, or not in comparison with the plain Doctrines of the Gospel. Or, if any should take the words in the largest sense, then all forts of Humane Learning, and all Arts and Trades are fet at nought by the Apostle; And if Co, the meaning can be no more than this, That he preferred the Knowledge of Christ before these; For 'tis ridiculous to think. that he absolutely flighted all other Science. The Knowledge of Christ is indeed the chiefest and most valuable Wisdom, but the Knowledge of the Works of God hath its place also, and ought not quite to be excluded and despised: Or, if Philosopby be to be flighted, by this Text, all other Knowledge whatsoever must be condemn'd by it.

But it will be urged,

(2.) That there is a particular Caution given by the Apostle against Philosophy, Col. 2. 8. Beware lest any one spoil you

through Philosophy.

To this I have said elsewhere, That the Apostle there means either the pretended Knowledge of the Gnosticks, the Genealogies of the Fews, or the disputing Learning of the Greeks; and perhaps he might have a respect to all those sorts of Science fallly so call'd. That the Disputing Philosophy of the Greeks is concerned in the Caution, will appear very probable. if we consider, That much of it was built on meer Notion. that occasioned division into manifold Sects, which managed their Matters by Sophistry and Disputations, full of nicity and mazes of Wit; and aimed at little, but the pride of mysterious talk of things, that were not really understood. Such a Pbilosophy the Apostle might justly condemn, and all Wise Men do the same, because 'tis very injurious to Religion, Real Knowledge, and the Peace of Men. But what is this to that, which modestly inquires into the Creatures of God, as they are; That collects the History of his Works, raising Observations from them for the Discovery of Causes, and Invention; of Arts, and Helps for the benefit of Mankind? What vanity; what prejudice

judice to Religion can be supposed in this? Is this, think we, that Philosophy, that Wisdom of this World, which the great Apostle censures and condemns? He is bold that saith it. speaks a thing he knows not, and might, if he pleased, know the contrary; Since the Method of Philosophy I vindicate, which proceeds by Observation and Experiment to Works, and uses of Life, was not, if at all, the way of those Times in which the Apostles liv'd, nor did it begin to shew it self in many Ages after; and therefore cannot be concerned in St. Paul's Caution to his Coloffians; nor in his fmartness against worldly Wisdom elsewhere, for by that we are to understand the Fetches of Policy, the Nicities of Wit, and Strains of Rhetorick that were then engaged against the progress of the Gospel: But what is all this to the Philosophy of God's Works; which illustrates the Divine Glory, and comments upon his Perfections, and promotes the great Defign of Christianity, which is doing good; and in its proper Nature tends to the disposing of Mens Minds to Vertue and Religion?

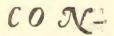
But (3.) If Philosophy be so excellent an Instrument to Religion; it may be askt (and the Question will have the force of an Objection) why the Disciples and first Preachers of the Gospel were not instructed in it; They were plain illiterate Men, altogether unacquainted with those Sublimities; God chose the foolish things of this World, to confound the wise. So that it seems he did not show this kind of Wisdom that respect which ac-

cording to our Discourse is due unto it.

I answer, That this choice the Divine Wisdom made of the Publishers of the Glad Tydings of Salvation, is no more prejudice or discredit to Philosophy, than it is to other sorts of Learning; and indeed 'tis none at all to any: For the special Reasons of God's making this Election seem such as these, viz. That his Power might more evidently appear in the wonderful propagation of the Religion of Christ Jesus, by such seemingly unqualified Instruments; That the World might not suspect it to be the contrivance of Wit, Subtilty and Art, when there was so much plainness and simplicity in its sirst Promoters: And perhaps too it was done in contempt of the vain and pretended knowledge of the Jews and Greeks, over

which the plainness of the Gospel was made gloriously to triumph. To which I add this; It might be to shew, That God values Simplicity and Integrity above all Natural Perfections, how excellent soever. So that there being such special Reasons for the chusing plain Men to set this grand Affair on foot in the World, it can be no disparagement to the Knowledge of Nature, that it was not begun by Philosophers. And to counter-argue this Topick, we may consider, That

The Patriarchs, and Holy Men of Ancient Times that were most in the Divine Favour, were well instructed in the Knowledge of God's Works, and contributed to the good of Men by their useful Discoveries and Inventions. acquainted with the Nature of the Creatures; Noah a Planter of Vineyards; Abraham (as Grotius collects from Ancient History) a great Mystes in the Knowledge of the Stars. Isaac prosperous in Georgicks. Facob blessed in his Philosophical Stratagem of the speckled Rods. Moses a great Man in all kinds of Natural Knowledge. Bezaleel and Aboliab, inspired in Architecture. Solomon a deep Naturalist, and a Composer of a voluminous History of Plants. Daniel, Hananiah, Mishael, and Azariab, skilled in all Learning and Wildom; Ten times better, faith the Text, than the Magicians and Astrologers in Nebuchadnezzar's Realm: And to accumulate no more Instances, the Philosophers of the East made the first Addresses to the Infant Saviour.



CONCLUSION.

Reason why we should discourage or oppose modest Inquiries into the Works of Nature; and whatsoever ignorant Zeal may prompt the common fort to, me-thinks those of generous Education should not be of so perverse a frame: Especially it becomes not any that minister at the Altar, to do so great a differvice to Religion, as to promote so unjust a Conceit as that of Philosophy's being an Enemy unto it.

The Philosophers were the Priests among the Egyptians, and feveral other Nations in Ancient Times; and there was never more need that the Priests should be Philosophers, than in ours; For we are liable every day to be called out to make good our. Foundation's against the Atheist, the Sadduce, and Enthusiast; And 'tis the Knowledge of God in his Works that must furnish us with some of the most proper Weapons of Defence. Hard Names, and damning Sentences; the Arrows of bitter words. and raging passions, will not defeat those Sons of Anak; these are not fit Weapons for our Warfare. No, they must be met by a Reason instructed in the knowledge of Things, and fought in their own Quarters, and their Arms must be turned upon themselves; . This may be done, and the advantage is all ours. We have Steel and Brass for our Defence, and they have little else than Twigs and Bull-rushes for the Assault; we have Light, and firm Ground, and they are lost in Smoak and Miss; They tread among Bogs and dangerous Fens, and reel near the Rocks and Steeps. And shall we despise our Advantages, and forfake them? Shall we relinquish our Ground, and our Light, and muffle our felves up in darkness? Shall we give our Enemies the Weapons, and all the odds, and so endeavour to insure their Triumphs over us? This is sottishly to betray Religion and our selves.

If this Discourse chance to meet with any that are guilty of these dangerous Follies, it will, I hope, convince them,

That they have no reason to be asraid of *Philosophy*, or to despise its Aids in the Concerns of Religion. And for those who never yet thought of this part of *Religion* to glorifie God for his Works, I wish it may awaken them to more attentive consideration of the wisdom and goodness that is in them; and so excite their pious acclamations. And to encourage them to it. I shall adventure to add,

That it feems very probable, that much of the Matter of those Hallelnjah's and triumphant Songs, that shall be the joyful entertainment of the Bleffed, will be taken from the wonders of God's Works; and who knows, but the contemplation of these, and God in them, shall make up a good part of the imployment of those glorified Spirits; who will then have inconceivable advantages for the fearthing into those Effects of Divine Wildom and Power, beyond what are possible for us Mortals to attain. And those Discoveries which for ever they shall make in that immense Treasure of Art, the Universe, must needs fill their Souls every moment with pleasant astonishment, and inflame their hearts with the ardours of the highest Love and Devotion, which will breathe forth in everlasting Thanksgivings. And thus the study of God's Works joyned with those pious Sentiments they deserve, is a kind of anticipation of Heaven; And next after the contemplations of his Word, and the wonders of his Mercy discovered in our Redemption, it is one of the best and noblest Imployments; the most becoming a reasonable Creature, and such a one as is taught by the most reasonable and excellent Religion in the World.



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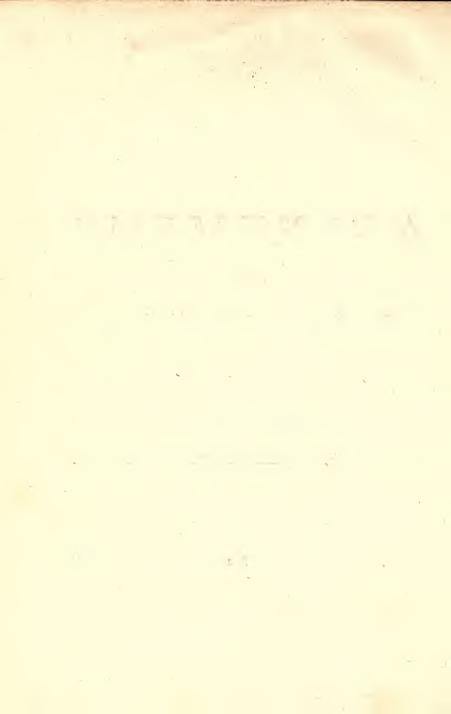
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Reason and Religion.

Here is not anything that I know, which hath done more mischief to Religion, than the disparaging of Reason, under pretence of respect and favour to it: For hereby the very Foundations of Christian Faith have been undermin'd, and the World prepared for Atheism. And if Reason must not be heard, the Being of a God, and the Authority of Scripture, can neither be proved nor defended; and so our Faith drops to the Ground like an House that hath no Foundation:

By the same way, those sickly Conceits, and Enthusiastick Dreams, and unsound Doctrines that have poyson'd our Air, and infatuated the Minds of Men, and expos'd Religion to the scorn of Insidels, and divided the Church, and disturbed the Peace of Mankind, and involv'd all the Nation in so much Blood, and so many Ruines; I say hereby, all these fatal Follies, that have been the oceasions of so many Mischiess, have been propagated and promoted. On which accounts I think I may affirm, with some considence, That here is the Spring-Head of most of the Watters of Bitterness and Strife;

Strife; And here the Fountain of the Great Deeps of Atheism

and Fanaticism, that are broken up upon us.

So that there cannot be a more seasonable Service done either to Reason or Religion, than to endeavour the stopping up this Source of Mischiefs, by representing the Friendship and fair Agreement that is between them: For hereby Religion will be rescued from the impious accusation of its being groundless and imaginary: And Reason also defended against the unjust Charge of its being prophane and irreligious: This we have heard often from indifcreet and hot Men: For, having entertain'd vain and unreasonable Doctrines, which they had made an Interest, and the Badges of a Party, and perceiving that their Darling Opinions could not stand, if Reafon, their Enemy, were not discredited; They set up loud cries against it, as the grand Adversary of Free Grace and Faith; and zealoufly endeavour'd to run it down under the misapplyed names of Vain Philosophy, Carnal Reasoning, and the Wisdom of this World; and what have been the Effects of this proceeding, we have leen and felt.

So that, in my Judgment, it is the great duty of all sober and reasonable Men, to rise up (as they can) against this Spirit of Folly and Insatuation: And something I shall attempt now, by shewing, That Reason is very serviceable to Religion; and Religion very friendly to Reason. In order to

which, I must

(1.) State, what I mean by Religion? and what by Reafon? For there is nothing in any Matter of Enquiry or Debate that can be discover'd, or determin'd, till the Terms of the Question are explain'd, and the Notions settled. The want of this hath been the occasion of a great part of those Confusions we find in Disputes; and particularly most of the Clamours that have been raised against Reason in the Assairs of Religion have sprung from it. For while ungrounded Opinions, and unreasonable Practises are often call'd Religion, on the one hand; and vain Imaginations, and false Consequences are as frequently stiled Reason, on the other; 'Tis no wonder that such a Religion disclaims the use of Reason; or that such Reason is opposite to Religion. Therefore, in order to my shewing the Agreement between True Religion,

and

and the Genuine Reason, I shall, with all the clearness that I can, represent the just meaning of the one, and of the other.

For Religion first; It is taken either strictly for the Worship of God; or in a more comprehensive sense, for the sum of those Duties we owe to Him: And this takes in the other, and agrees with the Notation of the Name, which imports Binding, and implies Duty. Now all Duty is comprised under these two, viz. Worship and Vertue: Worship comprehends all Duties that immediately relate to God, as the Object of them; Vertue, all those that respect our Neighbour and our Selves. So that Religion primarily, and mainly consists in Worship and Vertue.

But Duty cannot be performed without Knowledge, and fome Principles there must be to direct the Practice: and those that discover the Duties, and guide Men in the performance

of them, are call'd Principles of Religion.

These are of two sorts;

Some (1.) Fundamental and Effential. Others (2.) Accessory and Assisting.

Fundamental is a Metaphor taken from the Foundation of a Building, upon which the Fabrick is erected, and without which it cannot stand. So that Fundamental Principles are such, as are presupposed to the Duties of Religion (one, or more) and such, as are absolutely necessary to the doing of them: of this sort I shall mention three, viz.

(1.) The Being of God, and the perfections of his Nature. The belief of these is necessary to all the parts of Religion. He that comes unto God, in any way of Worship, or Address, must know that he is, and in some measure, what: Namely, he must know, and own the commonly acknowledged Attributes of his Being.

2. A second necessary Principle is, The Providence of God, viz. the Knowledge, That he made us, and not we our selves; that he preserves us, and daily provides for us the good things we enjoy: This is necessary to the Duties of

Prayer,

Prayer, Praise, and Adoration: And if there be no Providence; Prayer, and Thanksgiving, and other Acts of Wor-

ship, are in vain.

3. A third Fundamental, is, Moral, Good, and Evil. Without this there can be no confession of Sin; no respect to Charity, Humility, Justice, Purity, or the rest that we call Vertues.

These will be conses'd to be Fundamentals of Religion: And I shall not dispute how many more may be admitted into the number. These we are sure are such, in the strictest sense, for all Religion supposeth, and stands upon them: And they have been acknowledg'd by Mankind in all Ages and Places of the World.

But besides these, there are other Principles of Religion, which are not in the same degree of absolute necessity with the former, but yet are highly serviceable, by way of incourage-

ment and assistance. I reckon four, viz.

(1,) That God will pardon us if we repent. (2.) That he will affift us, if we endeavour. (3.) That he will accept of Services that are imperfect, if they are sincere. (4.) That he

will righteously reward and punish in another World.

These contain the Matter and Substance of the Gospel; more clearly and explicitly reveal'd to the Christian Church; but in some measure owned also by the Gentiles. So that I may reckon, that the Principles I have mention'd, are the fum of the Religion of Mankind; I mean, as to the Doctrinal Part of it: and the Duties recited before, are the Substance of the Practical, which primarily and most effentially is Religion. And Christianity takes in all these Duties, and all these Principles; advancing the Duties to higher degrees of Excellency and Perfection; incouraging them by new Motives and Assistances; and superadding two other Instances, Baptilm, and the Lord's Supper. And for the Principles, it confirms those of Natural Religion; it explains them further, and discovers fome few new ones: And all these, both of the former and the latter fort, are contain'd in the Creed. Here are all the Fundamentals of Religion, and the main Assisting Principles alfo.

And though our Church require our affent to more Propofitions; yet those are only Articles of Communion, not Do-Ctrines absolutely necessary to Salvation. And if we go beyond the Creed for the Essentials of Faith; who can tell

where we shall stop?

The sum is, Religion primarily is Duty; And Duty is A'll that which God hath commanded to be done by his Word, or our Reasons; and we have the substance of these in the Commandments: Religion also, in a secondary sense, consists in some Principles relating to the Worship of God, and of his Son, in the ways of devout and vertuous living; and these are comprised in that Summary of Belief, called the Apostles Creed.

This I take to be Religion; and this Religion I shall prove to be reasonable: But I cannot undertake for all the Opinions some Men are pleased to call Orthodox; nor for all those that by many private Persons, and some Churches, are accounted essential Articles of Faith and Salvation. Thus I

have stated what I mean by Religion.

The OTHER thing to be determined, and fixt, is, the

proper Notion of Realon.

For this we may consider, that Reason is sometimes taken for Reason in the Faculty, which is the Understanding; and at other times, for Reason in the Object, which consists in those Principles and Conclusions, by which the Understanding is informed. This latter is meant in the Dispute concerning the Agreement or Disagreement of Reason and Religion. Reason in this sense, is the same with natural Truth, which I faid is made up of Principles and Conclusions. By the Principles of Reason we are not to understand the Grounds of any Man's Philosophy; nor the Critical Rules of Syllogism; but those imbred Fundamental Notices, that God hath implanted in our Souls; such as arise not from external Objects, nor particular Humours or Imaginations, but are immediately lodged in our Minds; independent upon other Principles or Deductions; commanding a sudden affent; and acknowledged by all fober Mankind.

Of this fort are these, That God is a Being of all Perfection. That nothing hath no Attributes. That a Thing cannot be, and not be.

That the Whole is greater than any of its Parts.

other Creatures. And these I call the Principles of Rea-

Son.

The Conclusions are those other Notices that are inferred rightly from these; and by their help, from the Observations of Sense; And the remotest of them that can be conceived, if it be duly inferred from the Principles of Reason, or rightly circumstantiated Sense, is as well to be reckoned a Part and Branch of Reason, as the more immediate Conclusions, that are Principles in respect of those distant Truths. And thus I have given an account also of the proper Notion, and Nature of Reason.

A M to shew next, (2.) That Religion is reasonable; and this implies two things, viz. That Reason is a Friend

to Religion; and that Religion is so to Reason.

I begin with the FIRST: and here I might easily shew the great congruity that there is between that Light, and those Laws, that God hath placed in our Souls; and the Duties of Religion, that by the expresses of his written Word he requires from us; and demonstrate that Reason teacheth All those, excepting only the two Positives, Baptism and the Holy Eucharist. But there is not so much need of turning my Discourse that way; and therefore I shall confine it to the Principles of Religion, which are called Faith, and prove that Reason exceedingly besiriends these.

It doth this (I.) By proving fome of those Principles; And (II.) By perending all. For the clearing both, let us confider, That the Principles of Religion are of two forts.

Either (1.) Such as are presupposed to Faith; or such as (2.) are formal Articles of it. Of the first are; The Being of a God; and the Authority of the Scripture. And of the second, such as are expressly declared by Divine Testimony; as

the

the Attributes of God; the Incarnation of his Son, and fuch like.

(I.) For the former, they are proved by Reason; and by

Reason only. The others we shall consider after.

(1.) That the Being of a God, the Foundation of all, is proved by Reason, the Apostle acknowledgeth, when he saith. That what was to be known of God, was manifest; and to the Heathen, Rom. 1. 19. and he adds, vers. 20. That the invisible Things from the Creation of the World, are clearly seen, being understood by the Things that are made. And the Royal Pfalmist speaks to the like purpose, Pfal. 19. The Heavens declare the Glory of God, and the Firmament sheweth his handy-Works. And again, Pfal. 148.3. Praise bim Sun and Moon, praise him ye Stars and Light; which intimates, that these Works of his afford Matter to our Reasons for Religious Acknowledgments. And Reason proves the Existence of God. from the beauty, and order, and ends, and usefulness of the Creatures; for these are demonstrative Arguments of the Being of a mise and omnipotent Mind, that hath framed all things so regularly and exactly; and that Mind is God. This Article then, Reason proves, which was the first Branch of the Particular; and I add, that it is Reason only that can do it; which was the other. For there are but three things from whence the Existence of any Being can be concluded, viz. Sense, Revelation, or Reason.

Sense hath no more to do here, but to present Matter for our Reasons to work on; and Revelation supposeth the Being of a God, and cannot prove it; for we can have no fecurity that the Revelation is true, till we are assured it is from God, or from some commissioned by him. The knowledge of his Being therefore, must precede our Faith in Revelation; and so cannot be deduced from it. So that only Reason is left to affure us here. And thus Reason lays the very Corner Stone

of Religion.

The next to this, is the other Principle mentioned, viz.

(2.) The Divine Authority of Scripture: This also is to be. proved by Reason, and only by it. The great Argument for the truth of Scripture, is the Testimony of the Spirit in the Miracles wrought by Christ and his Apostles: Our Saviour

himfelf Aa 2

himself useth this Argument to gain credit to his Doctrines. Believe me for the Work's Sake; The Works that I do bear testimony of me; and if I had not done among them the Works that no other Man did, they had had no fin, John 15.24. And the Apostles continually urge that great Miracle, the Resurrection of Christ from the dead, for the conviction both of the Tews and Gentiles, That he was the Son of God, and his Doctrines true. Now Miracles are an Argument to our Reasons, and we reason from them thus: Miracles are God's Seal, and they are wrought by his Power, and he is true and good, and would not lend these to Impostors to cheat and abuse Mankind: Therefore whoever works real Miracles for the confirmation of any Doctrine, it is to be believed, that he is taught of God, and commissioned to teach us: And that Christ and his Apostles did those things which are recorded of them. is Matter of Testimony; and Reason clears the validity of this. by the aggregation of multitudes of Circumstances, which thew. That the first Relators could not be deceived themselves, and would not deceive us; nor indeed could in the main Matters, if they had defigned it. And the certainty of the conveyance of those things to us is evinced also by numerous convictive Reasons: So that the matter of Fact is secure; and that fuch Doctrines were taught, as are ascribed to those Divine Persons; and those Persons inspired that penned them, are proved the same way: And so it follows from the whole. that the Gospel is the Word of God; and the Old Testament is confirmed by that. Thus Reason proves the Divine Authority of Scripture; and those other Arguments that use to be produced for it, from its Stile, and its influence upon the Souls of Men; from the excellency of its Design, and the Providence of God in preserving it; are of the same fort, though not of the same strength. Reason then proves the Scriptures, and this only; for that they are from God, is not known immediately by Sense; and there is no distinct Revelation that is certain and infallible to affure us of it; and for Reason only remains to demonstrate the Article.

These two great Truths, The Existence of God, and Authority of Scripture, are the first in our Religion; and they are Conclusions of Reason, as well as Foundations of Faith. And

thus briefly of those Principles of Religion that are presupposed unto it; we have seen how Reason serves for the Demonstration of them.

those that are formally so; They are of two sorts, mixt and pure: The mixt are those that are discovered by Reason, and the declared by Revelation also; and so are Principles both of Reason, and Faith: Of this kind are the Attributes of God; Moral good, and evil; and the immortality of Humane Souls. The Principles of pure Faith, are such, as are known only by Divine Testimony, as the Miraculous Conception, the Incarnation, and the Trinity.

The first fort Reason proves, as well as Scripture; this I

shew briefly in the Instances mention'd.

(1.) That the Divine Attributes are revealed in the Holy Oracles, is very clear; and as plain it is that they are deduced from Reason; For 'tis a general Principle through the World, That God is a Being absolutely perfect; And hence Reason concludes all the particular Attributes of his Nature; since Wisdom, Goodness, Power, and the rest, are Perfections, and imply nothing of imperfection or defect; and therefore ought to be ascribed to the infinitely perfect Being.

(2.) That there is moral Good, and Evil, is discoverable by Reason, as well as Scripture. For these are Reason's Maxims; That every Thing is made for an end; and every Thing is directed to its end by certain Rules: These Rules, in Creatures of understanding and choice, are Laws; and the transgressing

thefe, is Vice and Sin.

(3.) The Immortality of our Souls is plain in Scripture; and Reason proves it, by shewing the spirituality of our Natures; and that it doth, from the nature of Seuse; and our perception of Spiritual Beings; of Universals, and of Logical, Metaphysical, and Mathematical Notions; From our compounding Propositions, and drawing Conclusions from them; From the vastness and quickness of our Imaginations, and liberty of our Wills; all which are beyond the Powers of Matter, and therefore argue a Being that is Spiritual, and consequently

ly immortal; which Inference, the Philosophy of Spirits

proves.

Also, the Moral Arguments of Reason from the goodness of God, and his Justice in distributing Rewards and Punishments; the nature of Vertue, and tendencies of Religious Appetites, conclude, I think, very hopefully, That there is a Life after this. Thus in short of the Principles I called mixt, which Reason demonstrates.

B u T for the others, viz. (2.) Those of pure Kevela= tion, Reason cannot prove them immediately; nor is it to be expected that it should: For they are Matters of Testimony; and we are no more to look for immediate proof from Reason of those things, than we are to expect, that abstracted Reafon should demonstrate, That there is such a place as China; or, that there was such a Man as Julius Casar: All that it can do here, is to affert and make good the credibility, and truth of the Testimonies that relate such Matters: and that it doth in the present case, proving the Authority of Scripture; and thereby, in a remoter way, it demonstrates all the Mysteries of Faith, which the Divine Oracles immediately discover. And it is no more disparagement to our Reasons, that they cannot evince those Sacred Articles by their own unaided force, than it is a difgrace unto them, that they cannot know that there are such things as Colours, without the help of our Eyes; or that there are Sounds, without the faculty of Hearing. And if Reason must be called blind upon this account, because it cannot know of it self such things as belong to Testimony to discover; the best Eyes in the World may be so accounted, because they cannot see Sounds; and the best Palate dull and dead, because it cannot taste the Sun-Beams.

But though I have said, That Reason cannot of it self immediately prove the Truths of pure Revelation; Yet (1.) it demonstrates the Divine Authority of the Testimony that declares them; and that way proves even these Articles. If this be not enough,

I add thesecond Assertion, (2.) That Reason desends all

the Musteries of Faith and Religion: And for this, I must defire it be noted, That there are two ways whereby any thing may be defended, viz. Either (1.) by shewing the manner how the thing is; Or, if that cannot be done, by shewing (2.) That it ought to be believed, though the manner of it be not known: For instance, if any one denies, That all sorts of Creatures were in the Ark, under pretence, that it is imposfible they should be contained within such a space; He that can fhew bow this might be, by a distinct enumeration of the kinds of Animals, with due allowance for the unknown Species, and a computation of the particular capacity of the Ark; he defends the Sacred History the first way: But if another denies the conversion of Aaron's Rod into a Serpent, upon the same account, of the unconceivableness of the manner how it was done; this cannot indeed be defended the former way: But then it may, by representing that the Power of God is infinite; and can eafily do what we cannot comprehend; and that we ought to believe upon the credit of the Testimony, (that being well proved to us) though the manner of this miraculous performance, and such others as it relates, be unknown. And as it is in this last case, so it is in all the Mysteries of Faith and Religion; Reason cannot defend them indeed the first way: But it doth the fecond, by shewing, That the Divine Nature is infinite, and our Conceptions very shallow and finite; that 'tis therefore very unreasonable in us to indeavour to pry into the Secrets of his Being, and Actions; and to think that we can measure and comprehend them: That we know not the Effence and Ways of acting of the most ordinary and obvious Things of Nature, and therefore must not expect throughly to understand the deeper Things of God, That God hath revealed those Holy Mysteries unto us; and that 'tis the highest reason in the World to believe, That what he faith is true, though me do not know how these things are. These are all Considerations of Reason, and by the proposal of them, it sufficiently defends all the Mysteries that can be proved to be contained in the Sacred Volume, and shews that they ought to be received by us, though they cannot be comprehended.

Thus

Thus if any one should ask me, How the Divine Nature is united to the Humane? and declare himself unwilling to believe the Article till he could be fatisfied, bow; My answer would be in short, That I cannot tell; and yet I believe it is To: and he ought to believe the same, upon the credit of the Testimony, though we are both ignorant of the Manner. In order to which I would suggest, that we believe innumerable things upon the evidence of our Senses, whose Nature and Properties we do not know: How the parts of Matter cohere; and how the Soul is united to the Body, are Oueflions we cannot answer; and yet that such things are, we do not doubt: And why, faith Reason, should we not believe God's Revelation of things we cannot comprehend; as well as we do our Senses about Matters as little understood by us? 'Tis no doubt reasonable that we should, and by proving it is so, Reason defends all the Propositions of Faith and Religion. And when some of these are said to be above Reason, no more is meant, Than that Reason cannot conceive how those things are; and in that lense many of the Affairs of Nature are above it too.

Thus I have shewn how serviceable Reason is to Religion. I am next to prove,

That (II.) Beligion befriends it: And here I offer some Testimonies from the Holy Oracles to make that good; and in them we shall see, how God himself, and Christ, and his

Apostles, do own and acknowledge Reason.

I consider (1.) that God, Isa. 1.18. calls the rebellious Israelites to reason with him; Come now, and let us reason together, saith the Lord; and by Reason he convinceth the People of the vanity of Idols, Isa. 44.9. And he exposulates with their Reasons, Ezek. 18.31. Why will ye die, O ye House of Israel? And Mich. 6.3. O my People, what have I done unto thee? And wherein have I wearied thee? Testific against me. He appeals unto their Reasons, to judge of his proceedings. Isa. 5.3. And now, O inhabitants of Jerusalem, and Men of Judah, judge I pray you between me and my vineyard; are not my ways equal? and are not your ways unequal? In this he inti-

intimates the competency of their Reasons, to judge of the

equity of bis Ways, and the iniquity of their own.

And (2.) our Saviour commands the Disciples of the Pharifees, to give unto Cafar the things that are Cafar's, and to God the things that are God's; implying the ability of their Reasons to distinguish between the things that belonged to God, and those that appertained to Casar. And he in divers places argues from the Principles and Topicks of Reason: From that which we call, a majori ad minus, from the greater to the lefs, Fohn 12. 14. He shews it to be the duty of his Disciples, to serve their Brethren in the meanest Offices, and to wash one another's feet, because he had washed theirs, Vers. 14. inforcing it by this confideration of Reason; For the Servant is not greater than bis Lord, Vers. 26. and useth the same, John 15. 20. to shew, that they must expect Persecution, because He, their Lord, was persecuted. And Luke 12. 23. He endeayours to take them off from carking care and follicitude about Meat and Raiment, by this confideration from Reason, That the Life is more than Meat, and the Body than Raiment, intimating that God having given them the greater, there was no doubt but he would bestow the less, which was necessary for the preservation of it. To these Instances, I add some few from the Topick, à minori ad majus, from the less to the greater, in the arguings of our Saviour. Thus Mat. 7. 11. If ye being evil know how to give good Gifts to your Children, how much more shall your Father which is in Heaven give good Things to those that ask him? The ground of the Consequence is this Principle of Reason, That God is more benign and gracious, than the tenderest and most affectionate of our earthly Parents. So Luke 12.24. He argues, that God will provide for Us, because he doth for the Ravens, since we are better than they; How much more are ye better than the Fowls? Which arguing Supposeth this Principle of Reason, that that Wisdom & Goodness, which are indulgent to the viler Creatures, will not neglect the more excellent. He proceeds further in the same Argument, by the consideration of God's clothing the Lillies, and makes the like inference from it, Vers. 28. If God so clothe the Grals, how much more will he clothe you? And Mat. 12. He reasons that it was lawful for him to heal on the Sab-Bb bathbath-day, from the consideration of the general Mercy that is due even to brute Creatures; What Man shall there be among you that shall have one Sheep, and if it fall into a Pit on the Sabbath day, will be not lay hold of it to lift it out? How much more then is a Man better than a Sheep? Vers 12. Thus our Saviour used Arguments of Reason.

And (2.) the Apolles did so very frequently. S. Paul disproves Idolatry this way, Acts 17. 29. For asmuch then is we are the Off-firing of God, we ought not to think that the God bead is like unto Gold, or Silver, or Stone graven by Art. And the same Apostle proves the Resurrection of the Dead by the mention of seven gross Absurdities that would follow the denyal of it, 1 Cor. I. 15. viz. If the Dead rife not, Then 1. Christ is not rifen; And then 2. our Preaching is vain, and we false Apostles, And if so, 3. your Faith is vain; And then 4. you are not justified, but are in your fins; And hence it will follow 5. That those that are departed in the same Faith are perished; And then 6. Faith in Christ profits only in this Life; And if so, 7. we are of all Men the most miserable, Because we suffer all things for this Faith; From ver. 14. to ver. 19. And the whole Chapter contains Philosophical Reasoning, either to prove or illustrate the Resurrection; or to shew the difference of glorified Bodies from these. And S. Peter, in his second Epiftle, Chap. 2. shews, that finful Men must expect to be punished, because God spared not the Angels that fell. Instances of this would be endless; these may suffice. And thus of the Second thing also, which I proposed to make good, viz. That Religion is friendly to Reafon; and that appears, in that God himself, our Saviour, and his Apostles own it; and use Arguments from it, even in Affairs of Faith and Religion.

But divers Objections are urged against the use of Reason in Religion, from Scripture, and other Considerations: The

chief of them I shall consider briefly.

From Scripture 'tis alledged, (1.) That God will destroy the Wisdom of the Wise, 1 Cor. 1.19. And the World by Wisdom knew not God, vers. 21. And not many wise Men after the sless are called, vers. 26. And God chose the foolish things of

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this World to confound the wife, vers. 27. By which expressions of wildom and wife, 'tis prefumed that Humane Reason, and Rational Men, are meant. But these Interpreters mistake the Matter much, and as they are wont to do, put mere Arbitrary Interpretations upon Scripture; For by Wisdom here, there is no cause to understand the Reason of Men; but rather the Traditions of the Jews; the Philosophy of the Disputing Greeks; and the worldly Policy of the Romans, who were the Apportes 78 alavo, The Rulers of that World: That the Femily Learning in their Law is meant, the Apostle intimates. when he asks in a way of Challenge, verf. 20. Where is the Scribe? And the word requirers, fignifies one that was skill'd in their Laws and Customs. And that the Philosophy of the Greeks is to be understood likewise, we have ground to believe from the other Queslion in the same Verse; Where is the Disputer of this World? Which, though some refer to the Doctors among the Fews also, yet, I humbly think, it may more properly be understood of the Philosophers among the Grecians; For the Apostle writes to Greeks, and their Philofophy was notoriously contentious. And lastly, That the worldly Policies of the Romans are included in this Wisdom of this World, which the Apostle vilifies, there is cause to think from the fixth Verse of the second Chapter, where he saith, He Spake not in the Wisdom of the Princes of this World; And 'tis well known that Policy was their most valued Wildom; Tu regere imperio - To govern the Nations, and promote the grandeur of their Empire, was the great design and study of those Princes of this World. Now all these the Apostle fets at nought in the beginning of this Epistle; Because they were very opposite to the simplicity, and holiness, self-denial, and meekness of the Gospel. But what is this to the disadvantage of Reason; to which those forts of Wisdom are as contrary, as they are to Religion? And by this I am enabled.

(2.) To meet another Objection urged from 1 Cor. 2. 14. But the natural Man receiveth not the things of the Spirit of God, for they are foolighness unto him; neither can be know them, because they are spiritually discerned. Hence the Enthusiast argues the Universal Inability of Reason in things of Religion;

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and its Antipathy to them: Whereas I can apprehend no more to be meant by the words, than this, viz. That such kind of natural Men as those Scribes, and Disputers, and Politicians, having their Minds depraved, and prepossessed with their own Wisdom, were indisposed to receive this, that was so contrary unto it. And they could not know those things of God, because they were Spiritual, and so would require a Mind that was of a pure and spiritual frame, viz. free from that earthly Wisdom of all sorts, which counts those things foolishness; and which by God is counted so it self; I Cor. 3. 19. which place

(3.) Is used as another Scripture against Reason. The Wisdom of this World is foolishness with God: But it can signific nothing to that purpose, to one that understands and considers the Apostle's meaning. What is meant by the Wisdom of this World here, I have declared already; And by the former part of my Discourse it appears, that whatever is to be understood by it, our Reason cannot; since that either proves,

or defends all the Articles of Religion.

(4.) And when the same Apostle elsewhere, viz. 2 Cor. 1.
12. saith, That they had not their Conversation in slessly Wisdom; we cannot think he meant Humane Reason by that; for Reason directs us to live in simplicity, and godly sincerity, which he opposeth to a life in slessly Wisdom. By this theresore, no doubt, he means the Reason of our Appetites, and Passions, which is but Sense and Imagination, (for these blind Guides are the Directors of the Wicked) but not the Reason of our Minds, which is one of those Lights that illuminate the Consciences of good Men, and help to guide their Actions. And whereas 'tis objected,

Philosophy. I Answer, There is nothing can be made of that neither, for the disgrace of Reason; for the Philosophy the Apostle cautions against, is the same which he warns Timothy of, 1 Tim. 1. 4. Neither give heed to Fables and endless Genealogies that minister Questions; calling these, prophane, and vain bablings, and oppositions of Science, falsly so called, 1 Tim. 6.20. By all which, Learned Interpreters understand the pretended Knowledge, of which the Gnosticks boasted.

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which consisted in the fabulous Pedigrees of the Gods under the name of Aones; and it may be the Genealogies of which the Jews were so fond; and the disputing Philosophy among the Greeks, which was properly, Science falsly so called, and did minister Questions, and endless Strife; I say, 'tis very probable these might be comprehended also: But Reason is no otherwise concerned in all this, but as condemning, and reproving these dangerous Follies.

THUS we see the Pretensions from Scripture against Reason are vain. But there are other Considerations by which it useth to be impugned, as,

(1.) OUR Reason is corrupted, and therefore is not fit

to meddle in Spiritual Matters.

To this I fay, That Reason, as it is taken for the Faculty of Understanding, is very much weakened and impaired; It fees but little, and that very dully, through a Glass darkly, as the Apostle saith, I Cor. 13. And it is very liable to be mifled by our Senses, and Affections, and Interests, and Imaginations; fo that we many times mingle Errors, and false Conceits, with the genuine Dictates of our Minds, and appeal to them, as the Principles of Truth and Reason, when they are but the vain Images of our Phanties, or the false Conclusions of Ignorance and Mistake. If this be meant by the corruption of Reason, I grant it; and all that can be inferred from it will be; That we ought not to be too bold and peremptory in defining speculative, and difficult matters; especially not those that relate to Religion, nor to set our Reasonings against the Doctrines of Faith and Revelation. But this is nothing to the disreputation of Reason in the Object, viz. Those Principles of Truth which are written upon our Souls; or any Conclufions that are deduced from them: These are the same that they ever were, though we discern them not so clearly as the Innocent State did: They may be mistaken, but cannot be corrupted. And as our Understandings, by reason of their weakness, and liableness to Error, may take falshoods for some of those; or infer falsly from those that are truly such; fo:

fo we know, they do the same by the Scriptures themselves. viz. they very often mif-interpret, and very often draw perverse conclusions from them; And yet we say not, That the Word of God is corrupted, nor is the use of Scripture decryed because of those abuses. But here advantage will be taken to object again,

(2.) That since our natural Understandings are so weak. and so liable to mistake, they ought not to be used in the Affairs of Religion; and'twill signific little to us that there are certain Principles of eternal Reason, if we either perceive them not, or

cannot use them.

To this I Answer, That if on this account we must renounce the use of our natural Understandings, Scripture will be useless to us also; For how can we know the meaning of the words that express God's Mind unto us? How can we compare one Scripture with another? How can we draw any Consequence from it? How apply general Propositions to our own particular Cases? How tell what is to be taken in the Letter; what in the Mystery, what plainly; what in a Figure? What according to strict and rigorous Truth? What by way of accommodation to our Apprehensions? I say, without the exrcise of our Understandings, using the Principles of Reason, none of these can be done, and without them Scripture will fignifie either nothing at all, or very little to us. And what can Religion get this way? This Inference therefore is abfurd and impious. All that can justly be concluded from the weakness of our Understandings, will be what I intimated before, that we ought to use them with modely and caution; not that we should renounce them. He is a Mad-man, who, because his eyes are dim; will therefore put them out.

But it may be objected further,

(3.) That which Men call Reason is infinitely various, and that is reasonable to one, which is very irrational to another; Therefore Reason is not to be heard. And, I say, Interpretations of Scripture are infinitely various, and one calls that Scriptural, which another calls Heretical; Shall we conclude therefore, That Scripture is not to be beard? Reason in it self is the same all the World over, though Mens apprehensions of it are various, as the Light of the Sun is one, though Colours are infinite: And where this is, it ought not to be denied, because sollies and falshoods pretend relation to it; or call themselves by that name. If so, farewel Religion too.

But (4.) 'Tu Socinianism to plead for Reason in the Affairs

of Faith and Religion.

And I Answer, 'Tis gross Phanaticism to plead against it. This Name is properly applicable to the Enemies of Reason; But the other of Socinianism is groundlesly applyed to those that undertake for it; and it abfurdly supposeth that Socinians are the only rational Men; when-as divers of their Do-Ctrines, fuch as, The Sleep, and natural mortality of the Soul, and utter extinction, and annihilation of the Wicked after the Day of Judgment, are very obnoxious to Philosophy and Reason. And the Socinians can never be confuted in their other Opinions, without using Reason to maintain the Sense and Interpretation of those Scriptures that are alledged against them. 'Tis an easie thing, we know, to give an ugly Name to any thing we dislike; and by this way the most excellent and facred Things have been made contemptible and vile. I wish such hasty Censurers would consider before they call Names; That no Truth is the worse, because rash Ignorance bath thrown dirt upon it. I need say no more to these frivolous Objections. Those that alledge Atheilm, and tendency to Infidelity against the reverence and use of Reason, are disproved by my whole Discourse: Which shews that the Enemies of Reafon most usually serve the ends of the Infidel, and the Atheist; when as a due use of it destroys the Pretensions of both.

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Now from the foregoing brief Discourse I shall deduce some Corollaries, that may be of use for the better understanding of the whole Matter.

1. Reason is certain and infallible; This follows from the state I gave of the Nature and Notion of Reason in the begin-It confifts in First Principles, and the Conclusions that are raised from them, and the Observations of Sense. Now first Principles are certain, or nothing can be so; for every possible Conclusion must be drawn from those, or by their help; and every Article of Faith supposeth them: And for the Propositions that arise from those certain Principles, they are certain likewise; For nothing can follow from Truth, but Truth in the longest Series of Deduction. If Error creep in. there is ill consequence in the case. And the sort of Conclusions that arife from the Observations of Sense, if the Sense be rightly circumstantiated, and the Inference rightly made, are certain also. For if our Senses in all their due Circumstances deceive us. All is a delufion, and we are fure of nothing: But we know, that first Principles are certain, and that our Senses do not deceive us, because God, that bestowed them upon us, is True and Good: and we are as much assured, that whatever we duly conclude from either of them, is certain; because whatever is drawn from any Principle, was virtually contained in it.

(2.) I infer, That Reason is, in a sense, the Word of God, viz. That which he hath written upon our Minds and Hearts; as Scripture is that which is written in a Book. The former is the Word, whereby he hath spoken to all Mankind; the latter is that whereby he hath declared his Will to the Church, and his peculiar People. Reason is that Candle of the Lord, of which Solomon speaks, Prov. 20. 27. That Light, whereby Christ hath enlightned every one that cometh into the World, John 1. 9. And, that Law whereby the Consciences of the Heathen either accuse, or excuse one another, Rom. 2. 15.

So that Hierocles spoke well, when he said, Τό ορθό λόγο πεί Αιωθαι η Θεώ ταυτόν ετ το be persuaded by God and right Reason, is one and the same thing. And Luther called Philosophy, within its own bounds, The Truth of God.

- (3.) The belief of our Reason is an Exercise of Faith; and Faith is an Act of Reason. The former part is clear, from the last Particular, and we believe our Reasons, because we have them from God, who cannot mistake, and will not deceive. So that relying on them, in things clearly perceived, is trust in God's veracity and goodness, and that is an exercise of Faith. Thus Luke 12. The not belief of Reason, that suggests from God's clothing the Lillies, that Heiwill provide for us, is made by our Saviour a defect of Faith, Vers. 28. O ye of little Faith! And for the other part, that Faith is an Act of Reason, that is evident also: For, The highest Reason to believe in God revealing.
- (4.) No Principle of Reason contradicts any Articles of Faith. This follows upon the whole. Faith befriends Reason; and Reason serves Religion, and therefore they cannot clash. They are both certain, both the Truths of God; and one Truth doth not interfere with another, Τῷ ἀληθεί πάντος συνάθει το ἐπάρχοντα, saith Aristotle, Truth agrees with all things that are. Whatsoever contradicts Faith, is opposite to Reason; for tis a Fundamental Principle of that, That God is to be believed. Indeed sometimes there is a seeming contradiction between them; But then either something is taken for Faith, that is but Phansie; or something for Reason, that is but Sophistry; or the supposed contradiction is an Error and Mistake.
- (5.) When any thing is pretended from Reason, against any Article of Faith, we ought not to cut the Knot, by denying Reason; but endeavour to until it, by answering the Argument; and it is certain it may be fairly answered. For all Hereticks argue either from salse Principles, or sallaciously conclude from true ones: So that our Faith is to be desended, not by declaiming against Reason, in such a case, (which strengthens the Enemy, C c

and, to the great prejudice of Religion, allows Reason on his side); But we must endeavour to defend it, either by discovering the falshood of the Principles he useth in the name of Reason; or the ill Consequence, which he calls Proof.

- (6.) When any thing is offered us for an Article of Faith that feems to contradict Reason, we ought to see that there be good cause to believe that this is divinely revealed, and in the sense propounded. If it be, we may be affured from the former Aphorisms, that the Contradiction is but an Appearance; and it may be discovered to be so. But if the Contradiction be real. This can be no Article of Revelation, or the Revelation hath not this sense. For God cannot be the Author of Contradictions; and we have seen, that Reason, as well as Faith, is I mean, the Principles of Natural Truth, as well as those of Revelation. Το Ψεύθει ταχύ διαφωνεί το άλυθες, saith Aristotle, I'ruth is throughout contrary to falshood; and what is true in Divinity, cannot be false in Reason. 'Tis said indeed in the Talmud, If two Rabbins differ in Contradictories, yet both have their Opinions from Moses, and from God. But we are not obliged to such an irrational kind of Faith; And ought not to receive any thing as an Article of it, in a sense that palpably contradicts Reason, no more than we may receive any sense that contradicts the direct Scriptures. Faith and Reason accord, as well as the Old Testament, and the New; and the Analogy of Reason is to be heeded also, because even that is Divine and Sacred.
- (7.) There is nothing that God bath revealed to oblige our Faith, but he hath given us reason to believe that he hath revealed it. For though the thing be never so clearly told me, if I have not reason to think, that God is the Revealer of what is so declared, I am not bound to believe it; except there be evidence in the thing it self. For 'tis not Faith, but vain credulity to believe every thing that pretends to be from God. So that we ought to ask our selves a Reason, why we believe the Scripture to be the Revelation of God's Will, and ought not to assent to any sense put upon it, till we have ground to think, that that sense is his mind? I say, we must have ground, either

either from our particular Reasons, or the Authority of the Church; otherwise our Faith is vain Credulity, and not Faith in God.

- (8.) A Man may hold an erroneous Opinion from a mistaken sense of Scripture, and deny what is the truth of the Proposition, and what is the right meaning of the Text, and yet not err in Faith. For Faith is a belief of God revealing: And if God have not so revealed this, or that, as to give us certain ground to believe this to be his sense, he hath not sufficiently revealed it to oblige our Faith. So that though I deny such, or such a fense, while I believe it is not from God; his veracity and Authority is not concerned, fince I am ready however to give a chearful affent to what-ever is clearly and sufficiently revealed. This Proposition follows from the former, and must be understood only of those Doctrines that are difficult, and obscurely delivered: And that many things are so delivered in Scripture, is certain; For some are only hinted, and spoken occasionally; some figuratively, and by way of Parable, and Allegory; some according to Mens Conceptions; and some in Ambiguous and Enigmatical Phrases; which Obscurities may occasion mistake in those, who are very ready to believe what-ever God saith; and when they do, I should be loth to fay that fuch err in Faith; Though those that wrest plain Texts to a compliance with their Interests, and their Lusts; Though their Affections may bring their Judgments to vote with them. yet theirs is Error in Faith with a witness, and capable of no benefit from this Proposition.
- (9.) In searching after the sense of Scripture, we ought to consult the Principles of Reason, as we do other Scriptures. For we have shewn, That Reason is another part of God's Word. And though the Scripture be sufficient for its own end, yet Reason must be presupposed unto it; for without this, Scripture cannot be used, nor compared, nor applied, nor understood.
- (10.) The Essentials of Religion are so plainly revealed, that no Man can miss them, that hath not a mighty corrupt bias in bin Will and Affections to infatuate and blind his Understanding.

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Those Essentials are contained in the Decalogue and the Creed: Many speculative remoter Doctrines may be true, but not Fundamental. For 'tisnot agreeable to the goodness or justice of God, that Mens eternal Interests should depend upon things that are difficult to be understood, and easily mistaken. If they did, No Man could be secure, but that, do what he could, he should perish everlassingly, for not believing, or believing amiss some of those difficult Points, that are supposed necessary to Salvation; and all those that are ignorant, and of weak understanding, must perish without help, or they must be saved by implicit Faith in unknown Fundamentals.

THESE are some Propositions that follow from my Discourse, and from one another. The better they are considered, the more their force will be perceived; and I think they may serve for many very considerable purposes of Religion.

Charity, and the peace of Mankind.

And now, as a Conclusion to the whole, I shall add some Considerations of the dangerous tendency of the common practice (at least among the Sects) of declaiming against

Reafon as an Enemy to Religion.

(1.) It tends to the introduction of Atheism, Infidelity, and Scepticism; and bath already brought in a flood of these upon us. For what advantage can the Atheist and Infidel expect greater than this, That Reason is against Religion? What do they pretend? What can they propose more? If so, there will be no proving, That there is a God; or, That the Scripture is his Word; and then we believe gratis; and our Faith hangs upon Humour and Imagination; and that Religion that depends upon a warm Phansie, and an ungrounded belief, stands but till a Disease, or a new Conceit alter the Scene of Imagination, and then down falls the Castle, whose Foundation was in the Air. 'Twas the charge of Julian the Apostate against the Primitive Christians; Eder vias to mission this imerepas Est ooplas; That their Wisdom was to believe; as if they had no ground for their Faith. And those that renounce and decry Reason, justifie Julian in his Charge. If this be so, Religion will have

no bottom, but the Phansie of every one that professeth it; and how various and inconstant a thing Imagination is, every Man knows. These are the Consequences of defamations of Reason, on the pretended account of Religion; and we have feen, in multitudes of deplorable Instances, That they follow in practice, as well as reasoning. Men of corrupt inclinations suspect that there is no Reason for our Faith and Religion, and so are upon the borders of quitting it; And the Enthusiast, that pretends to know Religion best, tells them, that these Suspicions are very true; and thence the Debauchee gladly makes the desperate Conclusion: Or at least, when they hear that Reason is uncertain, various, and fallacious, they deny all credit to their Faculties, and become confounded Scepricks, that fettle in nothing. This I take to have been one of the greatest and most deadly occasions of the Atheism of our days; and he that hath rejected Reason, may be one when he pleaseth, and cannot reprehend, or reduce any one, that is so

already.

(2.) The denial of Reason in Religion, bath been the principal Engine that Hereticks and Enthusiasts bave used against the Faith; and that which lays us open to infinite follies and impostures. Thus the Arrians quarrelled with o moisola, because it was deduced by confequence, but not expressed in Scripture. The Apollinarists would by no means allow of Reason; And St. Austin saith of the Donatists, that they did calumniate, and decry It, to raise prejudice against the Catholick Faith; and elsewhere, Doctores vestri Hominem dialecticum fugiendum potius, & cavendum, quam refellendum censuerunt. The Ubiquitarians defend their Errors, by denying the judgment of Reason; and the Macedonians would not have the Deity of the Holy Ghost proved by Consequence. The later Enthusia afts in Germany, and other places, fet up loud and vehement out-cries against Reason; and the Lunaticks among us (that agree in nothing else) do yet sweetly accord in opposing this Carnal Reason; and this indeed is their common Interest. The impostures of Mens Phansies must not be seen in too much light; and we cannot dream with our eyes open. Reason would discover the nakedness of Sacred Whimsies, and the vanity of Mysterious Non-sense; This would disparage the Darlings

Darlings of the Brain, and cool the pleafant heats of kindled Imagination: And therefore Reason must be decryed, because an enemy to madness; and Phansie set up, under the Notion of Faith and Inspiration. Hence Men had got the trick to call every thing that was Consequent, and Reasonable, Vain Philosophy; and every thing that was Sober, Carnal Reasoning. Religion is fet so far above Reason, that at length it is put beyond Sobriety and Sense; and then 'twas fit to be believed. when 'twas impossible to be proved, or understood. The way to be a Christian, is first to be a Brute; and to be a true Believer, in this Divinity, is to be fit for Bedlam. Men have been taught to put out their eyes, that they might fee; and to hoodwink themselves, that they might avoid the Precipices. Thus have all Extravagancies been brought into Religion, bewond the Imaginations of a Fever, and the Conceits of Midnight: Whatever is phanfied, is certain; and whatever is vehement, is Sacred; every thing must be believed, that is dream'd; and every thing that is abfurd, is a Mystery. And by this way. Men in our days have been prepared to swallow every thing, every thing but what is fober: whatever is wild. will be fuck'd in like the Air; but what is reasonable, will be fled like Infection. So that if a Man would recommend any Doctrine for his life, to those Enemies of Reason, it must be fome odd non-fense, in the clothing of Imagination; and he that can be the Author of a new kind of Madness, shall lead a Party. Thus hath Religion, by the disparagement of Reason, been made a Medley of Phantastick Trash, spiritualized into an heap of Vapours, and formed into a Castle of Clouds; and exposed to every Wind of Humour and Imagination.

(3.) By the same way great advantage is given to the Church of Rome: Which is well known by those that adhere unto it. And therefore Perronius, Gonterius, Arnoldus, Veronius, and other Jesuites, have loudly declaimed against Reason; and the last mentioned, Veronius, presented the World with a Method to overthrow Hereticks, (meaning those of the Protestant Faith) which promised more than ordinary; And that was, to deny and renounce all Principles of Reason in Affairs of Faith, absolutely and roundly; and not to vouchsafe an Answer to any Argument against Transubstantiation, or the other Articles of their

their new Faith; but point-blank to deny whatever Reason faith in such Matters. And he affirms, that even these Principles of Reason, viz. Non entis non sunt Attributa; omne quod est, quando est, necesse est esse; and fuch like, which are the Foundations of all Reasoning, are dangerous to the Catholick Faith, and therefore not to be heeded. This Man speaks out. and affirms directly and boldly, what the other Enemies of Reason mean, but will not own. This is a Method to destroy Hereticks in earnest; but the mischief is, all Christians, and all other Religions, and all other Reasonings are cut off by the same Sword. This Book and Method of Veronius was kindly received by the Pope, priviledged by the King of Spain, approved by Cardinals, Archbishops, Bishops, and all the Gallick Clergy, as folid, and for the advantage of Souls; and the Sorbone Doctors gave it their approbation, and recommended it as the only way to confute us, and all the other Adversaries of their corrupted Faith and Religion. Did these know what they did? And did they, think we, understand the Interest of the Roman Church? If so, we kindly serve their ends, and promote their Defigns in the way, which they account best, while we vilifie and disparage Reason. If this be renounced in Matters of Religion, with what face can we use it against the Doctrine of Transubstantiation, or any other Points of the Roman Creed? Would it not be blameless and irreprovable for us to give up our Understandings implicitly to the Dictates and Declarations of that Church? May we not follow blindly whatever the Infallible Man at Rome and his Councils fay? And would it not be vain self-contradiction to use Arguments against their Decrees, though they are never so unreasonable? Or to alledge Consequences from Scripture against any of their Articles, though never so contrary to the Holy Oracles? How easily may they rejoyn, when we dispute against them; You argue from Reason, and by Consequences; But Reason is dull and carnal, and an enemy to the things of the Spirit, and not to be heard in the high Matters of Religion? And what can we say next, if allow of the Accusation? I say, by this way, we perfectly disable, or grossy contradict our selves, in most of our Disputes against the Romanists: And we are very disingenuous in our dealings, while we use Reason against them, and denv

deny it, when 'tis urged against our selves by another fort of Adversaries; which implies, that when we say, Reason is not to be heard, we mean, 'tis not to be heard against us; But it must against the Church of Rome, or any others we can oppugn by it. So that our denying Reason in Religion is either very humoursom and partial, or 'tis a direct yielding up our Cause to our Enemies; and doing that our felves, which is the only thing they defire, to undo us; and to promote their own Interests upon our Ruines.

And thus I have represented some of the Mischiefs that arise from the disparagement of Reason; we see they are great ones, big of many others, and such as are destructive to all Government, and all the Interests of the sober part of Mankind. This is properly Fanaticism, and all that we call so, grows upon it. Here the Enemies of our Church and Government began ; upon this they infifted still, and filled their Books, and Pulpits, and private Corners, with these Cantings. This was the Engine to overthrow all fober Principles, and Establishments; with this the People were infatuated, and credit was reconciled to Gibberish, and Folly; Euthusiasms, and vain Impulles. This is the Food of Conventicles to this day; the root of their Matter, and the burden of their Preachments. Let Reason be heard, and tie them to Sense, and most of their Holders-forth, have no more to fay. Their spirituality, for which they are admired, is besides Reason, and against it, rather than above it; And while this Principle of the enmity between Reason and Religion stands, the l'eople will think them the more Spiritual Preachers, because they are the less reasonable: And while they are abused by such a belief, 'twill be impossible for fober Men to have any success in their endeavours to convince them.

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In the Matter of

Witches and Apparitions.

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In the Matter of

Mitches and Apparitions.

F any thing were to be much admired in an Age of Wonders, not only of Nature, (which is a constant Prodigy) but of Men and Manners; it would be to me matter of aftonishment, that Men, otherwise witty and ingenious, are fallen into the Conceit that there's no fuch thing as a Witch, or Apparition, but that these are the Creatures of Melancholly and Superflition, foster'd by Ignorance and Design; which, comparing the confidence of their disbelief, with the evidence of the things denied, and the weakness of their Grounds, would almost suggest, that themselves are an Argument of what they deny; and that so consident an Opinion could not be held upon such inducements, but by some kind of Witchcraft, and Fascination in the Fancy. And perhaps that evil Spirit, whose Influences they will not allow in Actions afcribed to fuch Caufes, hath a greater hand and interest in their Proposition than they are aware of. For that subtil Enemy of Mankind (fince Providence will not permit him to mischief us without our own concurrence) attempts that by stratagem and artifice, which he could never effect by open ways of acting; and the fuccess of all wiles depending upon their fecrecy, and concealment, his influence is never more dangerous than when his agency is least suspected. In order Dd 2 there-

therefore to the carrying on the dark and hidden Defigns he manageth against our Happiness, and our Souls, he cannot expect to advantage himself more, than by infinuating a belief. That there is no such thing as Himself, but that Fear and Fancy make Devils now, as they did Gods of old. Nor can he ever draw the affent of Men to so dangerous an Affertion. while the standing sensible Evidences of his Existence in his practices by and upon his Instruments, are not discredited and removed.

'Tis doubtless therefore the interest of this Agent of Darkness, to have the World believe, that the Notion they have of Him, is but a Phantôme and Conceit; and in order thereunto. That the stories of Witches, Apparitions, and indeed every thing that brings tidings of another World, are but melancholick Dreams, and pious Romances. And when Men are arriv'd thus far, to think there are no Diabolical Contracts or Apparitions, their belief that there are such Spirits. rests only upon their Faith, and reverence to the Divine Oracles; which we have little reason to apprehend so great in fuch Affertors, as to command much from their affent; especially in fuch things in which they have corrupt Interests against their evidence. So that he that thinks there is no Witch, believes a Devil gratis, or at least upon Inducements: which he is like to find himself disposed to deny when he pleaseth. And when Men are arrived to this degree of Diftidence and Infidelity, we are beholden to them if they believe either Angel, or Spirit, Resurrection of the Body, or Immortality of Souls. These things hang together in a Chain of Connexion, at least in these Mens Hypothesis; and 'tis but an happy chance, if he that hath lost one Link, holds another. So that the Vitals of Religion being fo much intereffed in this Subject, it will not be unnecessary imployment particularly to discourse it.

And in order to the proof that there have been, and are unlawful Confederacies with evil Spirits, by vertue of which the hellish Accomplices perform things above their natural Powers; I must premise, that this being matter of Fact, is only capable of the evidence of Authority and Sense: And by both these, the being of Witches and Diabolical Contracts.

is most abundantly confirm'd. All Histories are full of the Exploits of those Instruments of Darkness, and the Testimony of all Ages, not only of the rude and barbarous, but of the most civiliz'd and polish'd World, brings tidings of their strange performances. We have the Attestation of thousands of Eve and Ear-witnesses, and those not of the easily deceivable Vulgar only, but of wife and grave Difcerners; and that, when no Interest could oblige them to agree together in a common Lye: I fay, we have the light of all these Circumflances to confirm us in the belief of things done by Persons of despicable Power and Knowledge, beyond the reach of Art, and ordinary Nature. Standing publick Records have been kept of these well-attested Relations: and Epocha's made of those unwonted Events; Laws in many Nations have been enacted against those vile practices; Those among the Tems, and our own, are notorious: such Cases have been often determined near us, by Wise and Reverend Judges, upon clear and convictive Evidence: and multitudes in our Nation have fuffered death for their vile Compacts with Apostate Spirits. All these I might largely prove in their particular Instances, but that 'tis not needful, since those that deny the being of Witches, do it not out of ignorance of these Heads of Argument, of which probably they have heard a thoufand times; But from an apprehension that such abelief is abfurd, and the things impossible. And upon these presumptions they contemn all Demonstrations of this nature, and are hardned against Conviction. And I think, those that can believe all Histories are Romances, that all the wifer World have agreed together to juggle Mankind into a common belief of ungrounded Fables ; that the found Senses of multitudes together may deceive them; and Laws are built upon. Chymera's; that the gravest and wisest Judges have been Murderers; and the fagett Persons Fools, or designing Impostors: I fay, those that can believe this heap of Absurdities, are either more credulous than those whose credulity they reprehend; or else have some extraordinary evidence of their Perswasion, viz. That 'tis absurd and impossible there should be a Witch or Apparition. And I am confident, were those little appearances remov'd, which Men have form'd in their Fancies. cies against the belief of such things; their own Evidence would make the way to Mens assent, without any more Arguments than what they know already to enforce it. There is nothing then necessary to be done, in order to the establishing the belief I would reconcile to Mens minds; but to endeavour the removal of those Prejudices they have received against it: the chief of which I shall particularly deal with. And I begin with that bold Assertion, That

I

(I.) THE NOTION of a Spirit is impossible and contradictions; and consequently so is that of Witches, the belief of which is founded on that Doctrine.

To which Objection I Answer,

(1.) If the Notion of a Spirit be abfurd, as is pretended; that of a GOD, and a SOUL distinct from Matter, and Immortal, are likewise Absurdities. And then, That the World was jumbled into this elegant and orderly Fabrick by chance; and that our Souls are only parts of Matter, that came together we know not whence, nor how; and shall again shortly be dissolv'd into those loose Atoms that compound them; That all our Conceptions are but the thrusting of one part of Matter against another; and the Idea's of our Minds meer blind and casual Motions: These, and a thousand more the groffest Impossibilities and Abfurdities (confequents of this Proposition, That the Notion of a Spirit is absurd) will be sad Certainties and Demonstrations. And with fuch Affertors I would cease to discourse about Witches and Apparitions, and address my self to obtain their affent to Truths infinitely more Sacred.

And yet (2!) though it should be granted them, that a Substance immaterial is as much a contradiction as they can fancy; yet why should they not believe that the Air, and all the Regions above us, may have their invisible intellectual Agents of Nature like unto our Souls, be that what it will; and some of them at least as much degenerate as the vilett and most mischievous among Men. This Hypothesis will be

enough

enough to secure the possibility of Witches and Apparitions. And that all the upper Stories of the Universe are furnish'd with Inhabitants, 'tis infinitely reasonable to conclude from the Analogy of Nature; Since we see there is nothing so contemptible and vile in the World we relide in, but hath its living Creatures that dwell upon it; the Earth, the Water, the inferiour Air; the Bodies of Animals, the Flesh, the Skin, the Entrails; the Leaves, the Roots, the Stalks of Vegetables; yea, and all kind of Minerals in the Subterraneous Regions: I fay, all these have their proper Inhabitants; yea, I Suppose this Rule may hold in all distinct kinds of Bodies in the World, That they have their peculiar Animals. The certainty of which I believe the improvement of Microscopical Observations will discover. From whence I infer, That fince this little Spot is so thickly peopled in every Atom of it, 'tis weakness to think that all the vast spaces above, and hollows under Ground, are defert and uninhabited. And if both the superiour and lower Continents of the Universe have their Inhabitants also, 'tis exceedingly improbable, arguing from the same Analogy, that they are all of the meer sensible Nature, but that there are at least some of the Rational and Intellectual Orders. Which supposed, there is good foundation for the belief of Witches, and Apparitions; though the Notion of a Spirit should prove as absurd and unphilosophical, as I judg the Denial of it. And fo this first Objection comes to nothing. I descend then to the second Prejudice. which may be thus formed in behalf of the Objectors. and the located and edition breeze at the femilia

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(II.) Here are Actions in most of those Relations ascribed to Witches, which are ridiculous and impossible in the nature of things; such are (1.) their flying out of Windows, aster they have anointed themselves, to remote places. (2.) Their transformation into Cats, Hares, and other Creatures. (3.) Their feeling all the hurts in their own Bodies, which they have received in those. (4.) Their raising Tempests, by muttering some nonsensical words, or performing Ceremonies alike impertinent, as ridiculous. And (5.) their being suck'd in a certain private place of their Bodies

Bodies by a Familiar. These are presumed to be actions inconsistent with the nature of Spirits, and above the powers of those poor and miserable Agents. And therefore the Objection supposeth them performed only by the Fancy; and that the whole mystery of Witchcraft is but an illusion of crasse Imagination.

To this aggregate Objection I return,

(1.) In the general: The more abfurd and unaccountable these Actions seem, the greater confirmations are they to me of the truth of those Relations, and the reality of what the Objectors would defroy. For these Circumstances being exceeding unlikely, (judging by the measures of common belief) 'tis the greater probability they are not fictitious: For the contrivers of Fictions use to form them to as near a conformity as they can to the most unsuspected Realities, endeavouring to make them look as like Truth, as is possible in the main Suppofals, though withal they make them strange in the Circumstance. None but a Fool, or Madman, would relate, with a purpose of having it believed, that he saw in Ireland. Men with Horns on their Heads, and Eyes in their Breafts; or, if any should be so ridiculously vain, as to be serious in fuch an incredible Romance, it cannot be supposed that all Travellers that come into those parts after him should tell the same Story. There is a large Field in Fiction; and if all those Relations were Arbitrary Compositions, doubtless the first Romancers would have framed them more agreeable to the common Doctrine of Spirits; at least, after these suppofed Absurdities had been a thousand times laugh'd at, People by this time would have learn'd to correct those obnoxious Extravagancies; and though they have not yet more Veracity than the Ages of Ignorance and Superstition, yet one would expect they should have got more Cunning. This suppos'd Impossibility then of these Performances, seems to me a probable Argument that they are not wilful, and defigned Forgeries. And if they are Fancies, 'tis somewhat strange, that Imagination, which is the most various thing in all the World. should infinitely repeat the same Conceits in all Times and Places.

BuT again (2.) the strange Actions related of Witches, and prefumed to be impossible, are not ascribed to their own Powers, but to the Agency of those wicked Confederates they imploy: And to affirm that those evil Spirits cannot do that, which we conceit impossible, is boldly to stint the powers of Creatures, whose Natures and Faculties we know not; and to measure the world of Spirits by the narrow Rules of our own impotent Beings. We see among our selves the Performances of some out-go the Conceits and Possibilities of others; and we know many things may be done by the Mathematicks, and Mechanick Artifice, which common Heads think impossible to be effected by the honest ways of Art and Nature. And doubtless, the subtilties and powers of those. mischievous Fiends, are as much beyond the reach and activities of the most knowing Agents among us, as theirs are beyond the wit and ability of the most rustick and illiterate. So that the utmost that any Man's Reason in the World can amount to in this particular, is only this, That he cannot conceive how fuch things can be performed; which only argues the weakness and imperfection of our Knowledg and Apprehensions; not the impossibility of those Performances: and we can no more from hence form an Argument against them, than against the most ordinary Effects in Nature. We cannot conceive how the Fatus is form'd in the Womb; nor as much as how a Plant springs from the Earth we tread on; we know not how our Souls move the Body; nor how these distant and extream Natures are united; as I have shewn elsewhere. And if we are ignorant of the most obvious things about us, and the most considerable within our selves, 'tis then no wonder that we know not the Constitution and Powers of the Creatures, to whom we are fuch strangers. Briefly then, Matters of Fact well proved ought not to be denied, because we cannot conceive how they can be performed. Nor is it a reasonable method of Inference, first to presume the thing impossible, and thence to conclude that the Fact cannot be proved: On the contrary, we should judg of the Action by the Evidence, and not the Evidence by our Fancies about the Action. This is proudly to exalt our own, Opinions above the clearest Testimonics, and most sensible DemonDemonstrations of Fact: and so to give the Lye to all Mankind, rather than distrust the Conceits of our bold Imagina-

tions. But yet further,

(3.) I think there is nothing in the Instances mention'd, but what may as well be accounted for by the Rules of Reafon and Philosophy, as the ordinary Affairs of Nature. For in refolving Natural Phanomena, we can only affign the probable Causes, shewing how things may be, not presuming how they are: And in the particulars under our Examen, we may give an account how 'tis possible, and not unlikely, that fuch things (though fomewhat varying from the common road of Nature) may be acted. And if our narrow and contracted Minds can furnish us with apprehensions of the way and manner of such Performances, (though perhaps not the true ones) 'tis an argument that fuch things may be effected by Creatures, whose Powers and Knowledg are so vastly exceeding ours. I shall endeavour therefore briefly to fuggest fome things that may render the possibility of fuch performances conceivable, in order to the removal of this Objecti-

on, that they are Contradictions, and impossible.

For the first then, That the Confederate Spirit should trainsport the Witch through the Air to the place of general Rendezvous, there is no difficulty in conceiving it; and if that be true which great. Philosophers affirm, concerning the real separability of the Soul from the Body without Death, there is yet less; for then 'tis easie to apprehend, that the Soul, having left its groß and fluggish Body behind it, and being cloth'd only with its immediate Vehicle of Air, or more subtile Matter, may be quickly conducted to any place, by those officious Spirits that attend it. And though I adventure to affirm nothing concerning the truth and certainty of this Supposition, yet I must needs say, it doth not seem to me unreasonable. Our experience of Apoplexies, Epilepsies, Extasses, and the strange things Men report to have seen during those Deliquiums, look favourably upon this Conjecture; which feems to me to contradict no Principle of Reason or Philosophy, fince Death confifts not fo much in the actual separation of Soul and Body, as in the indisposition and unfitness of the Body for Vital Union, as an excellent Philosopher hath made good: good: On which Hypothesis, the Witch's anointing her self before she takes her slight, may perhaps serve to keep the Body tenantable, and in fit disposition to receive the Spirit at its return. These things, I say, we may conceive, though I affirm nothing about them; and there is not any thing in such Conceptions but what hath been own'd by Men of Worth and Name, and may seem fair and accountable enough to those who judg not altogether by customary Opinions. There's a saying of the great Apostle that seems to countenance this Platonick Notion; what is the meaning else of that Expression, [Whether in the Body, or out of the Body, I cannot tell] except the Soul may be separated from the Body without death? Which if it be granted possible, 'tis sufficient for my purpose. And

(2.) The Transformations of Witches into the shapes of other Animals, upon the same supposal is very conceivable, since then 'tis casie to apprehend, that the Power of Imagination may form those passive and pliable Vehicles into those shapes, with more ease than the Fancy of the Mother can the stubborn Matter of the Fatus in the Womb, as we see it frequently doth in the Instances that occur of Signatures, and monstrous Singularities; and perhaps sometimes the consederate Spirit puts tricks upon the Senses of the Spectators,

and those Shapes are only Illusions.

But then (3.) when they feel the Hurts in their groß Bodies, that they receive in their Aiery Vehicles, they must be supposed to have been really present, at least in these latter; and 'tis no more difficult to apprehend how the hurts of those should be translated upon their other Bodies, than how Diseases should be inflicted by the Imagination, or how the Fancy of the Mother should wound the Fatus, as several credible Relations do attest.

And (4.) for their raising Storms and Tempests; They do it not by their own, but by the power of those Evil Spirits that reside in the Air; and the Ceremonies that are enjoyn'd them, are doubtless nothing else but Entertainments for their Imaginations, and likely design'd to perswade them, that they do these strange things themselves.

(Lastly,) For their being suck'd by the Familiar, I sav. (1.) we know so little of the nature of Damons and Spirits. that 'tis no wonder we cannot certainly divine the Reason of fo strange an Action. And yet (2.) we may conjecture at fome things that may render it less improbable; For some have thought that the Genii (whom both the Platonical and Christian Antiquity thought embodied) are recreated by the Recks and Vapours of Humane Blood, and the Spirits that proceed from them: Which supposal (if we allow them Bodies) is not unlikely, every thing being refresh'd and nourish'd by its Like. And that they are not perfectly abstract from all Body and Matter, (besides the Reverence we owe to the wifest Antiquity) there are several considerable Arguments I could alledge to render exceeding probable. Which things supposed, the Devil's sucking the Sorceress is no great wonder, nor difficult to be accounted for. Or perhaps (3.) this may be only a Diabolical Sacrament, and Ceremony to confirm the Hellish Covenant. To which I add. (4.) That the Familiar doth not only fuck the Witch, but in the Action infuseth some poisonous Ferment into Her, which gives her Imagination and Spirits a Magical Tincture, whereby they become mischievously influential; and the word Venefica intimates some such Matter. Now that the Imagination hath a mighty power in Operation, is seen in the just-now mention'd Signatures, and Diseases that it causeth; and that the Fancy is modified by the Qualities of the Blood and Spirits, is too evident to need proof. Which things suppofed, 'tis plain to conceive that the Evil Spirit having breath'd some vile Vapour into the Body of the Witch, it may taint her Blood and Spirits with a noxious Quality, by which her infected Imagination, heightned by Melancholy, and this worse Cause, may do much hurt upon Bodies that are obnoxious to such Influences. And 'tis very likely that this Ferment disposeth the Imagination of the Sorceress to cause the mentioned aparena, or separation of the Soul from the Body, and may perhaps keep the Body in fit temper for its reentry; as also it may facilitate transformation, which, it may be, could not be effected by ordinary and unaffifted Imagination.

Thus we see, 'tis not so desperate to form an apprehension of the manner of these odd Performances; and though they are not done the way I have describ'd, yet what I have said may help us to a conceit of the Pessibility, which sufficeth for my purpose. And though the Hypothesis I have gone upon will seem as unlikely to some, as the things they attempt to explain are to others; yet I must desire their leave to suggest, that most things seem improbable (especially to the conceited, and opinionative) at first proposal: And many great Truths are strange and odd, till Custom and Acquaintance have reconciled them to our Fancies. And I'le presume to add on this occasion, (though I love not to be consident in affirming) that there is none of the Platonical Supposals I have used, but what I could make appear to be indifferently fair and reafonable.

III.

(III.) A Nother Prejudice against the being of Witches, is, That 'tis very improbable that the Devil, who is a Wise and Mighty Spirit, should be at the beck of a poor Hug, and have so little to do, as to attend the Errands and impotent Lusts of a filly old Woman.

To which I might answer, (1.) That 'tis much more improbable that all the World should be deceived in Matters of Fact, and Circumstances of the clearest Evidence and Conviction; than that the Devil, who is wicked, should be also unwise; and that He that perswades all his Subjects and Accomplices out of their Wits, should himself act like his own Temptations and Perswasions. In brief, there is nothing more strange in this Objection, than that Wickedness is Baseness and Servility; and that the Devil is at leasure to serve those whom he is at leasure to tempt, and industrious to ruine. And (2.) I fee no necessity to believe that the Devil is always the Witches Confederate; but perhaps it may fitly be considered, whether the Familiar be not some departed Humane Spirit, forsaken of God and Goodness, and swallowed up by the unfatiable defire of Mischief and Revenge; which possibly

possibly by the Laws, and capacity of its State, it cannot execute immediately. And why we should presume that the Devil should have the liberty of wandering up and down the Earth and Air, when he is faid to be held in the Chains of Darkness; and yet that the separated Souls of the Wicked. of whom no fuch thing is affirm'd in any Sacred Record. should be thought so imprison'd, that they cannot possibly wag from the Place of their Confinement, I know no shadow of Conjecture. This Conceit I'm confident hath prejudic'd many against the belief of Witches and Apparitions, they not being able to conceive that the Devil should be so ludicrous, as Appearing Spirits are sometimes reported to be in their Frolicks; and they presume, that Souls departed never revisit the free and open Regions; which confidence, I know nothing to justifie: For since good Men in their state of separation are faid to be isodyeno, why the wicked may not be supposed to be isodal knows in the worst sense of the word. I know nothing to help me to imagine. And if it be fo supposed that the Imps of Witches are sometimes wicked Spirits of our own Kind and Nature, and possibly the same that have been Sorcerers and Witches in this Life: This Supposal may give a fairer and more probable account of many of the Actions of Sorcery and Witchcraft, than the other Hypothesis, that they are always Devils. And to this Conjecture, I'le adventure to subjoin another, which also hath its probability, viz. (3.) That 'tis not impossible but that the Familiars of Witches are a vile kind of Spirits, of a very inferiour Constitution and Nature, and none of those that were once of the highest Hierarchy, now degenerated into the Spirits we call Devils. The common division of Spirits is in my Opinion much too general; and why may we not think, there is as great a variety of Intellectual Creatures in the Invisible World, as of Animals in the Visible? And that all the Superiour, year and Inferiour Regions, have their feveral kinds of Spirits differing in their natural Perfections; as well as in the Kinds and Degrees of their Depravities? Which if we fuppose, 'tis very probable that those of the basest and meanest Orders are they, who 'submit to the mention'd Servilities: And

And thus the Sagess, and grandeur of the Prince of Darkness need not be brought in question on this Occasion.

IV.

But (IV.) the Opinion of Witches seems to some to accuse Providence; and to suggest that it hath exposed Innocents to the sury and malice of revengesul Fiends; yea, and suppose the those most obnoxious, of whom we might most reasonably expect a more special care and protection; most of the cruel practices of those presum'd Instruments of Hell, being upon Children, who as they least deserve to be deserted, by that Providence that superintends all things, so they most need its Guardian Instrumence.

To this so specious an Objection, I have these things to

answer.

(1.) Providence is an unfathomable Depth; and if we should not believe the Phanomena of our Senses, before we can reconcile them to our Notions of Providence, we must be groffer Scepticks than ever yet were extant. The miseries of the present Life, the unequal distributions of Good and Evil, the ignorance and barbarity of the greatest part of Mankind, the fatal disadvantages we are all under, and the hazard we run of being eternally miserable and undone; these, Isay, are things that can hardly be made confistent withthat Wifdom and Goodness that we are fure hath made, and mingled it felf with all things. And yet we believe there is a beauty, and harmony, and goodness in that Providence, though we cannot unriddle it in particular Instances; nor, by reason of our ignorance and imperfection, clear it from contradicting Appearances; and confequently, we ought not to deny the being of Witches and Apparitions, because they will create us some difficulties in our Notions of Providence. (2.) Those that believe that Infants are Heirs of Hell, and Children of the Devil as soon as they are disclosed to the World, cannot certainly offer such an Objection; for what is a little trifling pain of a moment, to those eternal Tortures; to which, if they die as soon as they are born, according to the tenour of this Doctrine, they are everlastingly exposed? But howhowever the case stands as to that, 'tis certain, (3.) That Providence hath not secur'd them from other violences they are obnoxious to, from cruelty and accident; and yet we accuse It not, when a whole Townful of Innocents fall a Victim to the rage and ferity of barbarous Executioners in Wars and Massacres. To which I add, (4.) That 'tis likely the mischief is not so often done by the evil Spirit immediately, butby the malignant influence of the Sorceress, whose power of hurting confifts in the fore-mention'd Ferment, which is infused into her by the Familiar. So that I am apt to think there may be a power of real Fascination in the Witches Eyes and Imaginations, by which for the most part she acts upon tender Bodies. Nescio quis teneros oculus - For the Pestilential Spirits being darted by a spightful and vigorous Imagination from the Eye, and meeting with those that are weak and passive in the Bodies which they enter, will not fail to infect them with a noxious Quality, that makes dangerous and strange Alterations in the Person invaded by this poisonous Influence: which way of acting by fubtil and invisible Instruments, is ordinary and familiar in all natural Efficiencies. And 'tis now past question, that Nature for the most part acts by fubtil Streams and Aporrhea's of Minute Particles, which pass from one Body to another. Or however that be, this kind of Agency is as conceivable as any of those Qualities, which our Ignorance hath called Sympathy and Antipathy; the reality of which we doubt not, though the manner of Action be unknown. Yea, the thing I speak of is as easie to be apprehended, as how Infection should pass in certain tenuious Streams through the Air, from one House to another; or, as how the biting of a mad Dog should fill all the Blood and Spirits with a venomous and malign Ferment; the application of the Vertue doing the same in our Case, as that of Contact doth in this. Yea, some kinds of Fascination are perform'd in this groffer and more sensible way, as by striking, giving Apples, and the like, by which the contagious Quality may be transmitted, as we see Diseases often are by the touch. Now in this way of conjecture, a good account may be given why Witches are most powerful upon Children and timerous Persons, viz. because their Spirits and Imaginations being being weak and passive, are not able to resist the satal Instuence; whereas Men of bold Minds, who have plenty of throng and vigorous Spirits are secure from the Contagion; as in pestilential Airs clean Bodies are not so liable to Insection as other tempers. Thus we see 'tis likely enough, that, very often, the Sorceres her self doth the mischies; and we know, de facto, that Providence doth not always secure us from one anothers Injuries; And yet I must consess, that many times also the Evil Spirit is the Mischievous Agent; though this Consession draw on me another Objection, which I next propose;

V.

(V.) IT may be said, that if Wicked Spirits can hurt as by the Direction, and at the desire of a Witch, one would think they should have the same power to do us injury without instigation or compact; and if this be granted, 'tis a wonder that we are not always annoyed and insested by them. To which

I Answer, (1.) That the Laws, Liberties, and Restraints of the Inhabitants of the other World are to us utterly unknown; and in this way, we can only argue our felves into confessions of our Ignorance, which every Man must acknowledge that is not as immodest, as ignorant. It must be granted by all that own the Being, Power, and Malice of Evil Spirits, that the fecurity we enjoy is wonderful, whether they act by Witches or not; and by what Laws they are kept from making us a Prey, to speak like Philosophers, we cannot tell! Yea, why they should be permitted to tempt and ruine us in our Souls, and restrain'd from touching or hurting us in our Bodies, is a Mystery not easily accountable. But (2.) though we acknowledg their Power to vex and torment us in our Bodies also; yet a reason may be given why they are less frequent in this kind of mischief, viz. because their main Designs are levell'd against the interest and happiness of our Souls, which they can best promote, when their Actions are most sly and fecret; whereas did they ordinarily perfecute Men in their Bodies, their Agency and wicked Influence would be discover'd.

ver'd, and make a mighty noise in the World, whereby Men would be awaken'd to a futable and vigorous opposition, by the use of such means as would engage Providence to rescue them from their rage and cruelties; and at last defeat them in their great purposes of undoing us eternally. Thus we may conceive that the fecurity we enjoy may well enough confift with the power and malice of those Evil Spirits; and upon this account may suppose that Laws of their own may prohibit their unlicenc'd Injuries; not from any goodness there is in their Constitutions, but in order to the more successful carrying on the projects of the Dark Kingdom; as Generals forbid Plunder, not out of love to their Enemies, but in order to their own success. And hence (3.) we may Suppose a Law of Permission to hurt us at the instance of the Sorceress, may well stand with the polity of Hell, since by gratifying the wicked Person, they encourage her in malice and revenge, and promote thereby the main ends of their black Confederacy, which are to propagate Wickedness, and to ruine us in our eternal Interests. And yet (4.) 'tis clear to those that believe the History of the Gospel, that Wicked Spirits have vexed the Bodies of Men. without any instigation that we read of; and at this day "tis very likely that many of the strange Accidents and Diseases that befal us, may be the infliction of Evil Spirits, prompted to hurt us only by the delight they take in mischief. So that we cannot argue the improbability of their hurting Children and others by Witches, from our own fecurity and freedom from the Effects of their Malice, which perhaps we feel in more Instances than we are aware of.

VI.

(VI.) A Nother Prejudice against the belief of Witches, is, a presumption upon the enormous force of Melancholly and Imagination; which without doubt can do wonderful Things, and beget strange Perswasions; and to these Causes some ascribe all the Effects of Sorcery and Witchcraft. To which I reply briefly; and yet I hope sufficiently,

(1.) That to resolve all the clear Circumstances of Fact, which we find in well-attested, and confirm'd Relations of this kind, into the power of deceivable Imagination, is to make Fancy the greater Prodigy; and to suppose, that it can do stranger Feats than are believed of any other kind of Fascination. To think that Pins and Nails, for instance, can, by the power of Imagination be convey'd within the Skin; or that Imagination should deceive so many as have been Witnesses in Objects of Sense, in all the Circumstances of Discovery: This, I say, is to be infinitely more credulous than the Affertors of Sorcery, and Demoniack Contracts. By the same reason it may be believ'd, that all the Battels and strange Events of the World, which our selves have not feen, are but Dreams and fond Imaginations, and like those that are fought in the Clouds, when the Brains of the deluded Spectators are the only Theatre of those fancied Transactions. And (2.) to deny evidence of Fact, because their Imagination may deceive the Relators, when we have no reafon to think fo, but a bare presumption, that there is no such thing as is related, is quite to destroy the Credit of all Humane Testimony, and to make all Men liars in a larger sense than the Prophet concluded in his haste. For not only the Melancholick and the Fanciful, but the Grave and the Sober, whose Judgements we have no reason to suspect to be tainted by their Imaginations, have from their own knowledge and experience made reports of this Nature. But to this it will possibly be rejoyn'd, and the Reply will be another prejudice against the belief for which I contend, viz.

VII.

(VII.) That 'tis a suspicious circumstance that Witchcraft is but a Fancy, since the Persons that are accused, are commonly poor and miserable old Women, who are over-grown with discontent and melancholy, which are very imaginative; and the Persons said to be bewitch'd, are for the most part Children, or People very weak, who are easily imposed upon, and are apt to receive strong Impressions from nothing: whereas were there any such Fig. 2

thing really, tis not likely, but that the more cunning and subtil Desperado's, who might the more successfully carry on the mischievous Designs of the Dark Kingdom, should be oftener engaged in those black Confederacies; and also one would expect Effects of the Hellish Combination upon others than the Innocent and the Ignorant.

To which Objection it might perhaps be enough to return. (as hath been above suggested) that nothing can be concluded by this and such-like arguings, but that the policy and menages of the Instruments of Darkness are to us altogether unknown, and as much in the dark as their Natures; Mankind being no more acquainted with the Reasons and Methods of Action in the other World, than poor Cottagers and Mechanicks are with the Intrigues of Government, and Reasons of State. Yea, peradventure (2.) 'tis one of the great Defigns, (as 'tis certainly the Interest) of those wicked Agents and Machinators, industriously to hide from us their influences and ways of acting, and to work, as near as is possible, incognito; upon which supposal 'tis easie to conceive a reason, why they most commonly work by, and upon the weak and ignorant, who can make no cunning Observations, or tell credible Tales to detect their Artifice. Besides (3.) 'tis likely a firong Imagination, that cannot be weaken'd or disturb'd by a busie and subtil Ratiocination, is a necessary requisite to those wicked Performances; without doubt an heightned and obstinate Fancy hath a great influence upon impressible Spirits; yea, and as I have conjectur'd before, on the more passive and susceptible Bodies: And I am very apt to believe, that there are as real Communications and Intercourses between our Spirits, as there are between Material Agents; which secret Influences, though they are unknown in their Nature, and ways of acting, yet they are sufficiently felt in their Effects: For Experience attests, that some by the very majesty and greatness of their Spirits, discover'd by nothing but a certain noble Air that accompanies them, will bear down others less great and generous, and make them fneak before them; and fome, by I know not what stupifying vertue, will tie up the Tongue, and confine the Spirits of those who are otherwise brisk and voluble.

voluble. Which thing supposed, the influences of a Spirit possess'd of an active and enormous Imagination, may be malign and fatal where they cannot be refifted; especially when they are accompanied by those poisonous Reaks that the Evil Spirit breaths into the Sorceress, which likely are shot out, and applyed by a Fancy heightned and prepared by Melancholy and Discontent. And thus we may conceive why the Melancholick and Envious are used upon such occasions. and for the same reason the Ignorant, since Knowledge checks and controuls Imagination; and those that abound much in the Imaginative Faculties, do not usually exceed in the Rational. And perhaps (4.) the Damon himself useth the Imagination of the Witch fo qualified for his purpole, even in those Actions of mischief which are more properly his; for it is most probable, that Spirits act not upon Bodies immediately, and by their naked Essence, but by means proportionate and sutable Instruments that they use; upon which account likely 'tis fo strictly required, that the Sorceress should belive, that so her Imagination might be more at the Devotion of the mischievous Agent: And for the same reason also Ceremonies are used in Inchantments, viz. for the begetting this Diabolical Faith, and heightning the Fancy to a degree of strength and vigour sufficient to make it a fit Instrument for the design'd performance. These I think are Reasons of likelihood and probability, why the Hellish Confederates are mostly the Ignorant and the Melancholick.

VIII.

(VIII.) He frequent Impostures that are met with in this kind, beget in some a belief, that all such Relations are Forgeries and Tales; and if we urge the evidence of a Story for the belief of Witches or Apparitions, they will produce two as seemingly strong and plausible, which shall conclude in Mistake or Design; inferring thence, that all others are of the same quality and credit. But fuch Arguers may please to consider,

(1.) That a fingle Relation for an Assirmative, sufficiently confirmed and attested, is worth a thousand Tales of forgery and imposture, from whence an Universal Negative cannot be concluded. So that though all the Objector's Stories be true, and an hundred times as many more such Deceptions; yet one Relation, wherein no fallacy or fraud could be suspected for our Assimative, would spoil any Conclusion could be erected on them. And

(2.) It feems to me a belief fufficiently bold and precarious, that all these Relations of Forgery and Mistake should be certain, and not one among all those which attest the Affirmative Reality, with Circumstances as good as could be expected or wish'd, should be true; but all fabulous and vain. Certainly they have no reason to object Credulity to the Assertors of Sorcery and Witchcraft, that can swallow so large

a Morfel. And I defire fuch Objectors to confider,

(3.) Whether it be fair to infer, that because there are some Cheats and Impostors, that therefore there are no Realities. Indeed frequency of deceit and fallacy will warrant a greater care and caution in examining; and scrupulosity and thiness of affent to things whereing fraud hath been practiced, or may in the least degree be suspected: But, to conclude, because that an old Woman's Fancy abused her, or some knavish Fellows put tricks upon the ignorant and timorous, that therefore whole Assizes have been a thousand times deceived in judgement upon Matters of Fact, and numbers of sober Persons have been forsworn in things wherein Perjury could not advantage them; I say, such Inferences are as void of Reason, as they are of Charity and good Manners.

IX.

I'may be suggested further, That it cannot be imagin'd what design the Devil should have in making those solemn Compacts, since Persons of such debauch'd and irreclaimable Dispositions as those with whom he is supposed to confederate, are pretty securely his antecedently to the Bargain, and cannot be more so by it, since they cannot put their Souls out of possibility of the Divine Grace, but by the Sin that is unpardonable; or if they could so dispose and give away themselves, it will to some seem very unlikely; that a great and mighty Spirit should oblige him-

felf to such observances, and keep such a-do to secure the Soul of a filly Body, which 'twere odds but it would be His, though He put himself to no further trouble than that of his ordinary Temptations.

To which Suggestions 'twere enough to fay, that 'tis sufficient if the thing be well prov'd, though the Design be not known: and to argue negatively à fine, is very unconclusive in fuch Matters. The Laws and Affairs of the other World (as hath been intimated) are vastly differing from those of our Regions, and therefore 'tis no wonder we cannot judge of their Deligns, when we know nothing of their Menages. and so little of their Natures. The ignorant looker-on can't imagine what the Limner means by those seemingly rude Lines and Scrawls which he intends for the Rudiments of a Picture; and the Figures of Mathematick Operation are nonsense, and dashes at a venture to one un-instructed in Mechanicks: We are in the dark to one anothers Purposes and Intendments; and there are a thousand Intrigues in our little Matters, which will not presently confess their Design, even to fagacious Inquisitors. And therefore 'tis folly and incogitancy to argue any thing one way or other from the defigns of a fort of Beings, with whom we so little communicate; and possibly we can no more aim, or guess at their Projects and Designments, than the gazing Beast can do at ours, when they see the Traps and Gins that are laid for them, but understand nothing what they mean. Thus in general.

But I attempt something more particularly, in order to which I must premise, That the Devil is a name for a Body Politick, in which there are very different Orders and Degrees of Spirits, and perhaps in as much variety of place and state, as among our selves; so that 'tis not one and the same Person that makes all the Compacts with those abused and seduced Souls, but they are divers, and those 'tis like of the meanest and basest quality in the Kingdom of Darkness; which being supposed, I offer this account of the probable Design of those wicked Agents, viz. That having none to rule or tyrannize over within the Circle of their own Nature and Government, they affect a proud Empire over us (the desire of

Domi-

Dominion and Authority being largely spread through the whole circumference of degenerated Nature, especially among those, whose pride was their original transgrettion) every one of these then desires to get Vassals to pay him homage, and to be employed like Slaves in the fervices of his Lufts and Appetites; to gratifie which defire, 'tis like it may be allowed by the constitution of their State and Government, that every wicked Spirit shall have those Souls as his property, and particular Servants and Attendants, whom he can catch in fuch Compacts; as those wild Beasts that we can take in hunting are ours, by the allowance of our Laws; and those Slaves that a Man hath purchas'd, are his peculiar Goods, and the Vassals of his Will. Or rather those deluding Fiends are like the feducing Fellows we call Spirits, who inveigle Children by their falle and flattering Promises, and carry them away to the Plantations of America, to be fervilely employed there in the Works of their Profit and Advantage. And as those base Agents will humour and flatter the simple unwary Youth, till they are on Ship-board, and without the reach of those that might rescue them from their hands: In like manner the more mischievous Tempter studies to gratifie, please, and accommodate those he deals with in this kind, till Death hath lanch'd them into the Deep, and they are past the danger of Prayers, Repentance, and Endeavours; and then He useth them as pleaseth Him. This account I think is not unreasonable, and 'twill fully answer the Objection. For though the Matter be not as I have conjectur'd, yet 'twill fuggest a way how it may be conceived, which destroys the Pretence, That the Design is inconceivable.

X.

But (X.) we are still liable to be question'd, how it comes about that those proud and insolent Designers practice in this kind upon so few, when one would expect, that they should be still trading this way, and every-where be driving on the Project, which the vileness of Men makes so feisable, and would so much serve the interest of their Lusts.

To which, among other things, that might be suggested,

I. return,

(1.) That we are never liable to be fo betrayed and abufed, till by our vile Dispositions and Tendencies we have forfeited the care and overlight of the better Spirits; who, though generally they are our guard and defence against the malice and violence of Evil Angels, yet it may well enough be thought, that sometimes they may take their leave of such as are swallowed up by Malice, Envy, and desire of Revenge, qualities most contrary to their Life and Nature; and leave them exposed to the invasion and follicitations of those Wicked Spirits, to whom such hateful Attributes make them very sutable. And if there be particular Guardian Angels, (as 'tis not abfurd to fancy) it may then well be supposed, that no Man is obnoxious to those Projects and Attempts, but only fuch whose vile and mischievous Natures have driven from them their protecting Genius. Against this dereliction to the power of Evil Spirits, 'tis likely enough what some affirm, that the Royal Pfalmist directs that Prayer, Pfal. 71. 9, 10. Cast me not off in the time of old Age; forsake me not when my strength faileth. For -They that keep my Soul Ouλάσσοντες τω Τυχίω μές, as the LXX and the Vulgar Latin, Qui custodiunt animam meam they take counsel together, saying, God hath forsaken him, persecute him and take him, for there is none to deliver him. (2.) 'Tis very probable, that the state wherein they are, will not easily permit palpable Intercourses between the bad Genii, and Mankind, since 'tis probable that their own Laws and Government do not allow their frequent excursions into this World. Or, it may with as great likelyhood be supposed, that 'tis a very hard and painful thing for them, to force their thin and tenuious Bodies into a visible confishence, and such Shapes as are neceffary for their designs in their correspondencies with Witches. For in this Action their Bodies must needs be exceedingly compress'd, which cannot well be without a painful sense. And this is perhaps a reason why there are so few Apparitions, and why Appearing Spirits are commonly in such haft to be gone, viz. that they may be deliver'd from the unnatural preffure Gε

preffure of their tender Vehicles, which I confess holds more in the Apparitions of Good, than of Evil Spirits; most Relations of this kind, describing their discoveries of themselves as very transient, (though for those the Holy Scripture records, there may be peculiar reason why they are not so) whereas the Wicked Ones are not altogether so quick and hasty in their Visits: The reason of which probably is, the great subtilty and tenuity of the Bodies of the former, which will require far greater degrees of compression, and consequently of pain, to make them visible; whereas the latter are more seculent and gross, and so nearer allied to palpable Consistencies, and more easily reduceable to Appearance and

Visibility.

At this turn, Thave again made use of the Platonick Hypothesis, That Spirits are embodied, upon which indeed a great part of my Discourse is grounded: And therefore I hold my felf obliged to a short account of that supposal. It seems then to me very probable from the Nature of Sense, and Analogy of Nature. For (1.) we perceive in our felves, that all Sense is caus'd and excited by Motion made in Matter; and when those Motions which convey sensible Impressions to the Brain, the Seat of Sense, are intercepted, Sense is lost: So that, if we suppose Spirits perfectly to be disjoin'd from all Matter, 'tis not conceivable how they can have the fense of any thing; For how material Objects should any way be perceiv'd, or felt without Vital Union with Matter, 'tis not possible to imagine. Nor doth it (2.) seem sutable to the Analogy of Nature, which useth not to make precipitious leaps from one thing to another, but usually proceeds by orderly steps and gradations: whereas were there no order of Beings between Us, (who are so deeply plunged into the groffest Matter) as I pure, unbodied Spirits, 'twere a mighty jump in Nature. Since then the greatest part of the World confifts of the finer portions of Matter, and our own Souls are immediately united unto these, 'tis exceeding probable, that the nearer orders of Spirits are vitally join'd to fuch Bodies; and fo, Nature by degrees ascending still by the more refin'd and subtile Matter, gets at last to the pure Noes or immaterial Minds, which the Platonists made the highest Order

Order of Created Beings. But of this I have discoursed elsewhere, and have said thus much of it at present, because it will enable me to add another Reason of the unfrequency of

Apparitions and Compacts, viz.

(3.) Because 'tis very likely, that these Regions are very unfutable, and disproportion'd to the frame and temper of their Senses and Bodies; so that perhaps the Courser Spirits. can no more bear the Air of our World, than Bats and Owls can the brightest Beams of Day: Nor can the Purer and Better any more endure the noviom Steams, and poisonous Reeks of this Dunghil Earth, than the Delicate can bear a Confinement in nasty Dungeons, and the foul squalid Caverns of uncomfortable Darkness. So that 'tis no more wonder, that the better Spirits no oftner appear, than that Men are not more frequently in the Dark Hollows under-ground. Nor is't any more strange that evil Spirits fo rarely visit us, than that Fishes do not ordinarily fly in the Air, (as 'tis said one fort of them doth) or that we see not the Batt daily fluttering in the Beams of the Sun. And now by the help of what I have spoken under this Head, I am provided with fome things wherewith to disable another Objection, which I thus propose:

x I.

(XI.) If there be such an intercourse between Evil Spirits and the Wicked; How comes it about that there is no correspondence between Good Angels, and the Vertuous; since without doubt these are as desirous to propagate the Spirit and Designs of the Upper and better World, as those are to promote the Interest of the Kingdom of Darkness?

Which way of arguing is still from our Ignorance of the State and Government of the other World, which must be confest, and may, without prejudice to the Proposition I defend. But particularly, I say, (1.) That we have ground enough to believe, that Good Spirits do interpose in, yea, and govern our Affairs. For that there is a Providence reaching from Heaven to Earth, is generally acknowledg'd; but Gg 2

that this supposeth all things to be order'd by the immediate influence, and interpolal of the Supreme Deity, some think. is not very Philosophical to Suppose; since, if we judge by the Analogy of the Natural World, all things we fee are carried on by the Ministery of Second Causes, and Intermediate Agents. And it doth not feem so Magnificent and Becoming an apprehension of the Supreme Numen, to fancy his immediate Hand in every trivial Management. But 'tis exceeding likely to conjecture, that much of the Government of us, and our Affairs, is committed to the better Spirits, with a due Subordination and Subserviency to the Will of the chief Re-Ctor of the Universe. And 'tis not absurd to believe, that there is a Government that runs from Highest to Lowest, the better and more perfect orders of Being still ruling the inferiour and less perfect. So that some one would fancy that perhaps the Angels may manage us, as we do the Creatures that God and Nature have placed under our Empire and Dominion. But however that is, That God rules the Lower World by the Ministery of Angels, is very consonant to the Sacred Oracles. Thus, Deut. 32. 8, 9. When the Most High divided the Nations their Inheritance, when he separated the Sons of Adam, he set the Bounds of the People, Kat agebraiv ay-Whav OES, according to the number of the Angels of God, as the Septuagint renders it; the Authority of which Translation, is abundantly credited and afferted, by its being quoted in the New Testament, without notice of the Hebrew Text; even there where it differs from it, as Learned Men have observ'd. We know also that Angels were very familiar with the Patriarchs of old; and Facob's Ladder is a Mystery; which imports their ministring in the Affairs of the Lower World. Thus Origen and others understand, that to be spoken by the Presidential Angels, Jer. 51. 9. We would have healed Babylon, but she is not healed: for sake her, and let us go. Like the Voice heard in the Temple before the taking of Ferusalem by Titus, Μεταβαίνωμεν έντευθεν. And before Nebuchadnezzar. was fent to learn Wisdom and Religion among the Beasts, He fees a Watcher, according to the LXX, an Angel, and an Holy One come down from Heaven, Dan. 4. 13. who pronounceth the fad Decree against Him, and calls it the Decree of the Watchers.

Watchers, who very probably were the Guardian Genii of of Himself and his Kingdom. And that there are particular Angels that have the special Rule and Government of particular Kingdoms, Provinces, Cities, yea and of Persons, I know nothing that can make improbable: The inflance is notorious in Daniel, of the Angels of Persia and Gracia, that hindred the other that was engaged for the Concerns of Fudea; yea, our Saviour himself tells us, that Children have their Angels; and the Congregation of Disciples supposed that St. Peter had his: Which things, if they be granted, the good Spirits have not so little to do with Us, and our Matters, as is generally believed. And perhaps it would not be abfurd, if we referr'd many of the strange Thwarts, and unexpected Events, the Disappointments and lucky Coincidences that befalus, the unaccountable Fortunes and Successes that attend some lucky Men, and the unhappy Fates that dog others that feem born to be miscrable; the Fame and Favour that still waits on some without any conceivable Motive to allure it. and the general neglect of others more deferving, whose worth is not acknowledg'd; I say, these and such-like odd things, may with the greatest probability be resolv'd into the Conduct and Menages of those Invisible Supervisors, that prefide over, and govern our Affairs.

But if they so far concern themselves in our Matters, how is it that they appear not to maintain a visible and confest Correspondence with some of the better Mortals, who are most sitted for their Communications and their Insluence? To which I have said some things already, when I accounted for the unfrequency of Apparitions; and I now add what I intend for another return.

to the main Objection, viz.

(2.) That the Apparition of Good Spirits is not needful for the Designs of the better World, what-ever such may be for the Interest of the other. For we have had the Appearance and Cohabitation of the Son of God; we have Moser and the Prophets, and the continued Instuence of the Spirit, the greatest Arguments to strengthen Faith, the most powerful Motives to excite our Love, and the noblest Encouragements to quicken and raise our Desires and Hopes, any of which are more than the Apparition of an Angel; which would

would indeed be a great gratification of the Animal Life. but 'twould render our Faith less noble and less generous, were it frequently so affisted: Bleffed are they that believe, and vet have not feen. Besides which, the Good Angels have no fuch Ends to profecute, as the gaining any Vasfals to serve them, they being Ministring Spirits for our good, and no felf-defigners for a proud and infolent Dominion over us. And it may be perhaps not impertinently added, That they are not always evil Spirits that appear, as is, I know not well upon what grounds generally imagined; but that the extraordinary detections of Murders, latent Treasures, falsified and unfulfill'd Bequests, which are sometimes made by Apparitions, may be the courteous Discoveries of the better, and more benign Genii. Yea, 'tis not unlikely, that those Warnings that the World sometimes hath of approaching Judgments and Calamities by Prodigies, and fundry odd Phanomena, are the kind Informations of some of the Inhabitants of the Upper World. Thus was Ferusalem forewarned before its facking by Antiochus, by those Aiery Horsemen that were seen through all the City for almost forty days together, 2 Mac. 5. 2, 3. And the other Prodigious Portents that fore-ran its Destruction by Titus: which I mention, because they are notorious Inflances. And though, for mine own part, I scorn the ordinary Tales of Prodigies, which proceed from superstitious Fears, and unacquaintance with Nature, and have been used to bad Purposes by the Zealous and the Ignorant; Yet I think that the Arguments that are brought by a late very Ingenious Author, to conclude against such Warnings and Predictions in the whole kind, are short and inconsequent, and built upon too narrow Hypotheseis. For if it be supposed that there is a fort of Spirits over us, and about us, who can give a probable guess at the more remarkable Futurities, I know not why it may not be conjectured, that the kindness they have for us, and the appetite of fore-telling strange things, and the putting the World upon expectation, which we find is very grateful to our own Natures, may not incline them also to give us some general notice of those uncommon Events which they foresee. And I yet perceive no reason we have to fancy, that what-ever is done in this kind, must needs be either

either immediately from Heaven, or from the Angels, by extraordinary Commission and Appointment. But it seems to me not unreasonable to believe, that those officious Spirits that oversee our Affairs, perceiving some mighty and sad Alterations at hand, in which their Charge is much concerned, cannot chuse, by reason of their affection to us, but give us some seasonable hints of those approaching Calamities; to which also their natural desire to foretel strange things to come, may contribute to incline them. And by this Hypothesis, the fairest Probabilities, and strongest Ratiocinations against Prodigies, may be made unserviceable. But this only by the way.

I defire it may be considered further,

(3.) That God himself affords his Intimacies, and converses to the better Souls, that are prepared for it; which is a

priviledge infinitely beyond Angelical Correspondence.

I confess the proud and fantastick Pretences of many of the conceited Melancholists in this Age, to Divine Communion, have prejudiced divers intelligent Persons against the belief of any such happy vouchsafement; so that they conclude the Doctrine of Immediate Communion with the Deity in this Life to be but an high flown Notion of warm Imagination, and over-lushious self-flattery; and I acknowledge I have my self had thoughts of this nature, supposing Communion with God to be nothing else but the exercise of Vertue, and that Peace, and those Comforts which naturally result from it.

But I have considered since, that God's more near and immediate imparting himself to the Soul that is prepared for that happiness by Divine Love, Humility, and Resignation, in the way of a vital Touch and Sense, is a thing possible in it self, and will be a great part of our Heaven; That Glory is begun in Grace, and God is pleased to give some excellent Souls the happy Ante-past; That Holy Men in ancient Times have sought and gloried in this Injoyment, and never complain so sorely as when it was with-held, and interrupted; That the Expressions of Scripture run infinitely this way, and the best of Modern good Men, do from their own experience attest it; That this spiritualizeth Religion, and renders its Injoyments more comfortable and delicious; That it keeps

the Soulunder a vivid Sense of God, and is a grand security against Temptation; That it holds it steady amid the Flatteries of a Prosperous State, and gives it the most grounded Anchorage, and support amid the Waves of an adverse Condition; That 'tis the noblest incouragement to vertue, and the biggest assurance of an happy Immortality; I say, I confidered these weighty things, and wondred at the carelesness. and prejudice of Thoughts that occasion'd my suspecting the reality of fo glorious a Privilege; I faw how little reafon there is in denying Matters of inward Sense, because our selves do not feel them, or cannot form an apprehension of them in our Minds: I am convinced that things of gust and relish must be judg'd by the sentient and vital Faculties, and not by the noetical Exercises of speculative Understandings: And upon the whole, I believe infinitely that the Divine Spirit affords its sensible Presence, and immediate Beatifick Touch to some rare Souls, who are divested of carnal Self. and mundane Pleasures, abstracted from the Body by Prayer and Holy Meditation; spiritual in their Desires, and calm in their Affections; devout Lovers of God, and Vertue, and tenderly affectionate to all the World; fincere in their Aims. and circumspect in their Actions; inlarged in their Souls, and clear in their Minds: These I think are the dispositions that are requisite to fit us for Divine Communion; and God transacts not in this near way, but with prepared Spirits who are thus disposed for the manifestation of his Presence, and his Influence: And fuch I believe he never fails to bless with these happy foretasts of Glory.

But for those that are Passionate and Conceited, Turbulent and Notional, Consident and Immodest, Imperious and Malicious; That doat upon Trisles, and run siercely in the ways of a Sect; that are listed up in the apprehension of the glorious Prerogatives of themselves and their Party, and scorn all the World besides; For such, I say, be their Pretensions what they will, to Divine Communion, Illapses, and Discoveries, I believe them not; Their Fancies abuse them, or they would us. For what Communion hath Light with Darkness, or the Spirit of the Holy One with those, whose Genius and Ways are so unlike him: But the other excellent Souls I

describ'd,

describ'd, will as certainly be visited by the Divine Presence, and Converse, as the Chrystaline Streams are with the Beams of Light, or the fitly prepared Earth, whose Seed is in it self, will be actuated by the Spirit of Nature.

So that there is no reason to Object here the want of Angelical Communications, though there were none vouchsafed us, since good Men enjoy the Divine, which are infinitely

more satisfactory and indearing.

And now I may have leave to proceed to the next Objection, which may be made to speak thus:

XII.

(XII.) He belief of Witches, and the wonderful things they are said to perform by the help of the Confederate Dæmon, weakens our Faith, and exposeth the World to Infidelity in the great Matters of our Religion. For if they by Diabolical Assistance, can inflict and cure Diseases, and do things so much beyond the comprehension of our Philosophy, and activity of common Nature; What assurance can we have, that the Miracles that confirm our Gospel were not the Effects of a Compact of like nature, and that Devils were not cast out by Beelzebub? If Evil Spirits can assume Bodies, and render themselves visible in humane Likenes; What security can we have of the reality of the Resurrection of Christ? And if, by their help, Witches can enter Chambers invifibly through Key-holes, and little unperceived Crannies, and transform themselves at pleasure; What Arguments of Divinity are there in our Saviour's shewing himself in the midst of his Disciples, when the Doors were shut, and his Transfiguration in the Mount? Miracles are the great Inducements of Belief; and how shall we distinguish a Miracle from a Lying Wonder; a Testimony from Heaven, from a Trick of the Angels of Hell; if they can perform things that aftonish and confound our Reasons, and are beyond all the Possibilities of Humane Nature? To this Objection I reply;

(1.) The Wonders done by Confederacy with Wicked Spirits, cannot derive a suspicion upon the undoubted Miracles that were wrought by the Author and Promulgers of our H h Religion.

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Religion, as if they were performed by Diabolical Compact, fince their Spirit, Endeavours, and Deligns, were notorioully contrary to all the Tendencies, Aims, and Interests of the Kingdom of Darkness. For, as to the Life and Temper of the Blessed and Adorable JESUS, we know there was an incomparable sweetness in his Nature, Humility in his Manners, Calmness in his Temper, Compassion in his Miracles, Modesty in his Expressions, Holiness in all his Actions. Hatred of Vice and Baleness, and Love to all the World; all which are effentially contrary to the Nature and Constitution of Apostate Spirits, who abound in Pride and Rancour. Infolence and Rudeness, Tyranny and Baseness, Universal Malice; and Hatred of Men: And their Designs are as oppofite, as their Spirit and their Genius. And now, Can the Sun borrow its Light from the Bottomless Abyss? Can Heat and Warmth flow in upon the World from the Regions of Snow and Ice? Can Fire freeze, and Water burn? Can Natures, so infinitely contrary, communicate, and jump in Projects, that are destructive to each others known Interests? Is there any Ballam in the Cockatrices Egg? or, Can the Spirit of Life flow from the Venom of the Asp? Will the Prince of Darkness strengthen the Arm that is stretcht out to pluck his Usurp't Scepter, and his Spoils from him? And will he lend his Legions, to affift the Armies of his Enemy against him? No, these are impossible Supposals; No intelligent Being will industriously and knowingly contribute to the Contradiction of its own Principles, the Defeature of its Purposes, and the Ruine of its own dearest Interests. There is no fear then, that our Faith should receive prejudice from the acknowledgement of the Being of Witches, and Power of Evil Spirits, fince 'tis not the doing wonderful things that is the only Evidence that the Holy JESUS was from God, and his Doctrine True; but the conjunction of other Circumstances, the Holiness of his Life, the Reasonableness of his Religion, and the Excellency of his Defigns, added credit to his Works, and strengthned the great Conclusion, That be could be no other than the Son of God, and Saviour of the World. But besides, I say,

(2.) That fince Infinite Wisdom and Goodness rules the World, it cannot be conceiv'd, that they should give up the greatest part of Men to unavoidable deception. And if Evil Angels, by their Confederates are permitted to perform such aftonishing things, as seem so evidently to carry God's Seal and Power with them, for the confirmation of Fallhoods, and gaining credit to Impostors, without any Counter-evidence to disabuse the World; Mankind is exposed to sad and fatal Delusion: And to say that Providence will suffer us to be deceived in things of the greatest Concernment, when we use the best of our Care and Endeavours to prevent it, is to speak hard things of God; and in effect to affirm, That He hath nothing to do in the Government of the World, or doth not concern himself in the Affairs of poor forlorn Men: And if the Providence and Goodness of God be not a security unto us against such Deceptions, we cannot be affured, but that we are always abused by those mischievous Agents, in the Objects of plain Sense, and in all the Matters of our daily Converses. If One that pretends he is immediately sent from God, to overthrow the Ancient Fabrick of Established Worship, and to erect a New Religion in His Name, shall be born of a Virgin, and honoured by a Miraculous Star; proclaimed by a Song of seeming Angels of Light, and Worshipped by the Wise Sages of the World; Revered by those of the greatest Austerity, and admired by all for a Miraculous Wisdom, beyond his Education and his Years: If He shall feed Multitudes with almost nothing, and fast himself beyond all the possibilities of Nature: If He shall be transformed into the appearance of extraordinory Glory, and converse with departed Prophets in their visible Forms: If He shall Cure all Diseases without Physick or Endeavour, and raise the Dead to Life after they have stunk in their Graves: If He shall be honoured by Voices from Heaven, and attract the Universal Wonder of Princes and People: If he shall allay Tempests with a Beck, and cast out Devils with a Word: If he shall foretel his own Death particularly, with its Tragical Circumstances, and his Resurrection after it: If the Veil of the most famous Temple in the World shall be Rent, and the Sun darkned at his Funeral: If He shall, within the time Hh 2

foretold, break the Bonds of Death, and lift up his Head out of the Grave: If Multitudes of other departed Souls shall arise with Him, to attend at the Solemnity of his Resurrection: If He shall, after Death, visibly Converse, and Eat, and Drink with divers Persons, who could not be decrived in a Matter of clear Sense, and ascend in Glory in the presence of an astonisht and admiring Multitude: I say, if such a One as this should prove a Diabolical Impostor, and Providence should permit him to be so credited and acknowledged; What possibility were there then for us to be affured, that we are not always deceived? yea, that our very Faculties were not given us only to delude and abuse us? And if so, the next Conclusion is, That there is no God that judgeth in the Earth; and the best, and most likely Hypothesis will be, That the World is given up to the Government of the Devil. But if there be a Providence that superviseth us, (as nothing is more certain) doubtless it will never suffer poor helpless Creatures to be inevitably deceived, by the craft and fubtilty of their mischievous Enemy, to their undoing; but will without question take fuch care, that the Works wrought by Divine Power for the confirmation of Divine Truth, shall have such visible Marks and Signatures, if not in their Nature, yet in their Circumstances, Ends, and Designs, as shall discover whence they are. and fufficiently diffinguish them from all Impostures and Delusions; And though wicked Spirits may perform some strange things that may excite wonder for a while, yet He hath, and will so provide, that they shall be baffled and discredited; as we know it was in the Case of Moses and the Ægyptian Magicians.

These things I count sufficient to be said to this last, and shrewdest Objection; Though some, I understand, except, that I have made it stronger than the Answer I have applyed. That I have urged the Argument of Unbelievers home, and represented it in its full strength, I suppose can be no matter of just reproof; For to triumphover the weakness of a Cause, and to over-look its strength, is the trick of shallow and interessed Disputers, and the worst way to defend a Good Cause, or consute a Bad One. I have therefore all along urged the most cogent Things I could think of, for the Interest

of the Objectors, because I would not impose upon my Reader or my self; and the stronger I make their Premises, the more shall I weaken their Conclusion, if I answer them; which whether I have done, or not, I refer my self to the Judgments of the Ingenious and Considerate; from whom I should be very glad to be informed in what particular Points my Discourse is defective; General Charges are no Proofs, nor are they easily capable of an Answer. Yet, to the mention'd Exception, I say,

That the strength of the Objection is not my fault, for the Reasons alledg'd; and for the supposed incompetency of my return, I propose, that if the Circumstances of the Persons. Ends, and Issues be the best Notes of Distinction between true Miracles and Forgeries, Divine and Diabolical Ones, I. have then said enough to secure the Miracles of our Saviour. and the Holy Men of Ancient Times. But if these Objectors think they can give us any better, or more infallible Criteria, I defire them to weigh what I have offer'd about Miracles in some of the following Leaves, before they enter that Thought among their Certainties. And if their other Marks of Difference will hold, notwithstanding those Allegations, I suppose the inquisitive believing World would be glad to know them; and I shall have particular Obligations to the Discoverer, for the strength with which he will thereby assist my Answer.

But till I see that, I can say nothing stronger; or if I saw it, which I shall not in haste expect, I should not be convinced but that the Circumstances of Difference which I have noted, are abundantly sufficient to disarm the Objection; and to shew, that though Apparitions, Witchcraft, and Diabolical Wonders are admitted: yet none of these can fasten any Slur, or ground of dangerous Doubt upon the miraculous performances of the H. Jesus and his Apostles. If the dissatisfied can shew it, I shall yeeld my self an humble Proselite to their Reasons; but till I know them, the General Sug-

gestion will not convince me.

Now, besides what I have directly said to the Main Objection, I have this to add to the Objectors, That I could wish they would take care of such Suggestions; which, if they overthrow not the Opinion they oppose, will dangerously

rously affront the Religion they would seem to acknowledge. For he that saith, That if there are Witches, there is no way to prove that Christ Jesus not a Magician, and Diabolical Impostor, puts a deadly Weapon into the hands of the Insidel, and is himself next door to the Sin against the Holy Ghost: of which, in order to the perswading greater tenderness and caution in such Matters, I give this short account.

He Sin against the Holy-Ghost is said to be Unpardonable; by which fad-Attribute, and the Discourse of our Saviour, Mat. 12. from the 22-to the 33 Verfe, we may understand its Nature. In order to which we consider, That fince the Mercies of God, and the Merits of his Son, are infinite, there is nothing can make a Sin unpardonable, but what makes it incurable; and there is no Sin but what is curable by a strong Faith, and a vigorous Endeavour: For all things are possible to him that believeth. So that, That which makes a Sin incurable, must be somewhat that makes Faith impossible, and obstructs all means of Conviction. In order to the finding which, we must consider the Ways and Methods the Divine Goodness hath taken, for the begetting Faith, and cure of Infidelity: which it attempted, first, by the Prophets, and Holy Men of Ancient Times, who, by the excellency of their Doctrine, the greatness of their Miracles, and the holiness of their Lives, endeavoured the Conviction and Reformation of a stubborn and unbelieving World. But though few-believed their report, and Men would not be prevailed on by what they did, or what they faid; yet their Infidelity was not hitherto incurable, because further means were provided in the Ministry of Fobn the Baptift, whose Life was more severe, whose Doctrines were more plain, pressing and particular: and therefore 'twas possible that He might have succeeded. Yea, and where He failed, and could not open Mens Hearts and Eyes, the Effect was still in possibility, and it might be expected from Him that came after, to whom the Prophets and John were but the Twilight and the Dawn. And though His miraculous Birth. the Song of Angels, the Journey of the Wife Men of the East, and the correspondence of Prophesies, with the Circumftances

cumstances of the first appearance of the Wonderful Infant: I fay though these had not been taken notice of yet was there a further provision made for the cure of Infidelity, in his aftonishing Wildom, and most excellent Doctrines; For. He spake as never Man did. And when these were despised and neglected, vet there were other Means towards Conviction, and Cure of Unbelief, in those mighty Works that bore Testimony of Him, and wore the evident Marks of Divine Power in their Foreheads. But when after all. These clear and unquestionable Miracles which were wrought by the Spirit of God, and had eminently his Superscription on them, shall be ascribed to the Agency of Evil Spirits, and Diabolical Compact, as they were by the malicious and spightful Pharifees; when those great and last Testimonies against Infidelity, shall be said to be but the Tricks of Sorcery, and Complotment with Hellish Confederates; This is Blasphemy in the highest, against the Power and Spirit of God, and such ascuts off all means of Conviction, and puts the Unbeliever beyond all possibilities of Cure. For Miracles are God's Seal. and the great and last Evidence of the truth of any Doctrine. And though, while these are only dis-believed as to the Fact. there remains a possibility of Perswasion sayet, when the Fact shall be acknowledg'd, but the Power Blasphemed, and the Effects of the Adorable Spirit maliciously imputed to the Devils; such a Blasphemy, such an Insidelity is incurable, and confequently unpardonable. I fay, in fum, the Sin against the Holy Ghost seems to be a malicious imputation of the Miracles wrought by the Spirit of God in our Saviour to Satanical Confederacy, and the Power of Apostate Spirits; Then which, nothing is more blasphemous, and nothing is more like to provoke the Holy Spirit that is so abused to an Eternal Dereliction of fo Vile and fo Incurable an Unbeliever.

This account, as 'tis clear and reasonable in it self, so it is plainly lodg'd in the mention'd Discourse of our Saviour. And most of those that speak other things about it, seem to me to talk at random, and perfectly without Book.

Have thus endeavoured to remove the Main Prejudices against the belief of Witches and Apparitions; and I'me fure I have suggested much more against what I defend, than ever I heard or faw in any that opposed it, whose Discourses. for the most part, have seemed to me inspired by a lofty scorn of common belief, and fome trivial Notions of Vulgar Phi--losophy. And in despising the Common Faith about Matters of Fact, and fondly adhering to it in things of Speculation. they very grofly and absurdly mistake: For inthings of Fact. the People are as much to be believ'd, as the most subtile Phi-- losophers and Speculators; fince here, Sense is the Judge. -But in Matters of Notion and Theory, They are not at all to be heeded, because Reason is to be Judge of these, and this they know not how to use. And yet thus it is with those wise Philosophers, that will deny the plain Evidence of the Senses of Mankind, because they cannot reconcile Appearances to the fond Fancies of a Philosophy, which they lighted on in the High-way by Chance, and will adhere to at adventure. So that I profess, for mine own part, I never yet heard any of the confident Declaimers against Witchcraft and Apparitions, speak any thing that might move a Mind. in any degree instructed in the generous kinds of Philosophy, and Nature of things. And for the Objections I have recited, they are most of them such as rose out of mine own Thoughts, which I obliged to confider what might be to be faid upon this occasion.

For though I have examined Scot's Discovery, fancying that there I should find the strong Reasons of Mens dis-belief in this Matter: Yet I met not with any thing in that Farrago that was considerable. For the Author doth little but tell odd Tales, and silly Legends, which he consutes and laughs at, and pretends this to be a Consutation of the Being of Witches and Apparitions. In all which, His Reasonings are Trisling and Childish; and when He ventures at Philosophy, He is little better than absurd: So that I should wonder much if any but Boys and Bussions should imbibe Prejudices against a Belief so infinitely confirmed, from the loose and impotent

Suggestions of so weak a Discourser.

But however observing two things in that Discourse that would pretend to be more than ordinary Reasons, I shall do them the civility to examine them. It is said,

(1.) That the Gospel is silent, as to the Being of Witches; and tis not likely, if there were such, but that our Saviour or his Apostles had given intimations of their Existence. The other is,

(2.) M Iracles are ceased, and therefore the prodigious things as a scribed to Witchcraft, are supposed Dreams and Impostures.

they know, not a your refs Courfedt with Apolitie sain 5. For Answer to the First in order, I consider, (11.) That though the History of the New Testament were granted to be filent in the Business of Witches and Compacts, yet the Records of the Old have a frequent mention of them. The Law, Exed. 22.18. against permitting them to live is famous. And we have another remarkable prohibition of them. Deut. 18: 10, 11. There shall not be found among you any one, that maketh his Son or his Daughter pass through the Fire, or that useth Divination, or an Observer of Times, or an Enchanter, or a Witch, or a Charmer, or a Consulter with Familiar Spirits; or a Wizard, or a Necromancer, Now this accumulation of Names, (, some of which are of the same sense and import) is a plain indication that the Hebrew Witch was one that practifed by compact with evil Spirits. And many of the same Expressions are put together in the Charge against Manasses, 2 Chron. 33. viz. That he caused his Children to pass through the Fire; obferved Times; used Inchantments; and Witchcraft, and dealt with Familiar Spirits, and with Wizards. So that though the Original word which we render Witch and Witchcraft should, as our Sadduces urge, fignifie only a Cheat, and a Poisoner; vet those others mention'd; plainly enough speak the thing, and I have given an account in the former Confiderations, how a Witch in the common Notion is a Poisoner. But why meer poisoning should have a distinct Law against it, and not be concluded under the general one against Murder; why meer Legerdemain and Cheating should be so severely animadver-ted ted on, as to be reckon'd with Inchantments, converse with Devils, and Idolatrous Practices: I believe the denver of Witches will find it hard to give a reason. To which I may add some other Passages of Scripture that yield sufficient evidence in the Case. The Nations are forbid to hearken to the Diviners, Dreamers, Inchanters, and Sorcerers, Fer. 27. 9. The Chaldeans are deeply threatned for their Sorceries and Inchantments, Isa. 47.9. And we read that Nebuchadnezzar called the Magicians, Aftrologers, Sorcerers, and Chaldeans. to tell his Dream. My mention of which last, minds me to say, that for ought I have to the contrary, there may be a fort of Witches and Magicians that have no Familiars that they know, nor any express Compact with Apostate Spirits; who yet may perhaps act strange things by Diabolick Aids. which they procure by the use of those Forms, and wicked Arts that the Devil did first impart to his Confederates: And we know not but the Laws of that Dark Kingdom may injoyn a particular attendance upon all those that practise their Mysteries, whether they know them to be theirs or not. For a great interest of their Empire may be served by this Project, fince those that find such success in the unknown Conjurations, may by that be toll'd on to more express Transactions with those Fiends that have affisted them incognito: Or, if they proceed not so far, yet they run upon a Rock by acting in the Dark, and dealing in unknown and unwarranted Arts. in which the Effect is much beyond the proper efficiency of the things they use, and affords ground of more than suspicion that some Evil Spirit is the Agent in those wondrous Performances.

Upon this account, I say, it is not to me unlikely but that the Devils may by their own Constitution be bound to attend upon all that use their Ceremonies and Forms, though ignorantly, and without design of Evil; and so Conjuration may have been performed by those who are none of the Covenant-Sorcerers and Witches. Among those perhaps we may justly reckon Balaam, and the Diviners. For Balaam, Moncau hath undertaken to clear him from the Guilt of the greater Sorcery. And the Diviners are usually distinctly mentioned from those that had Familiar Spirits. The Astrologers also of Elder

Times.

Times, and those of Ours, I take to have been of this sort of Magicians, and some of them, under the colour of that Mystical Science, worse. And I question not, but that things are really done, and foretold by those pretended Artists, that are much beyond the regular Possibilities of their Art; which in this appears to be exceedingly uncertain and precarious, in that there are no less than six ways of erecting a Scheme, in each of which the Prediction of Events shall be different, and yet every one of them be justisfiable by the Rules of that pretended Science. And the Principles they go upon, are found to be very Arbitrary, and Unphilosophical, not by the ordinary Declaimers against it, but by the most profound Inquirers into things, who perfectly understand the whole Mystery, and are the only competent Judges.

Now those Mystical Students may in their first Addresses to this Science, have no other Design, but the satisfaction of their Curiosity to know remote and hidden things; Yet that in the Progress being not satisfied within the Bounds of their Art, doth many times tempt the Curious Inquirer to use worse means of Information; and no doubt those mischievous Spirits that are as vigilant as the Beasts of Prey, and watch all occasions to get us within their envious reach, are more constant Attenders, and careful Spies upon the Actions and Inclinations of such, whose Genius and Designs prepare

them for their Temptations.

So that I look on Judicial Astrology as a fair Introduction to Sorcery and Witchcraft. And who knows but that it was first fet on foot by Evil Spirits, as a Lure to draw the Curioso's into those snares that lie hid beyond it. And yet, I believe al-To. It may be innocently enough studied by those that aim only to understand what it is, and how far it will honestly go; and are not willing to condemn any thing which they do not comprehend. But that they must take care to keep themselves within the Bounds of fober Enquiry, and not indulge irregular Sollicitudes about the knowledge of Things, which Providence hath thought fit to conceal from us; Which who-ever doth, lays himself open to the Designs and Sollicitations of Wicked Spirits; and I believe there are very few among fuch as have been addicted to those Arts of Wonder and Prediction, but Ti 2 have have found themselves attaqued by some unknown Sollicitors, and inticed by them to the more dangerous Actions and Correspondencies. For as there are a fort of base and fordid Spirits that attend the Envy and Malice of the Ignorant and viler fort of Persons, and betray them into Compacts by Promifes of Revenge; So, no doubt, there are a kind of more Aiery and Speculative Fiends, of an higher rank and order than those wretched Imps, who apply themselves to the Curious: and many times prevail with them by offers of the more Recondite Knowledge; as we know it was in the first Temptation. Yea, and fometimes they are so cautious and wary in their Conversations with more refined Persons, that they never offer to make any express Covenants with them. To this purpose I have been informed, by a very Learned and Reverend Doctor, that one Mr. Edwards, a Master of Arts of Trin. Coll. in Cambridge, being reclaimed from Conjuration, declared in his Repentance, that the Damon always appeared to him like a Man of good fashion, and never required any Compact from him. And no doubt, They fort them-felves agreeably to the State, Port, and Genius of those with whom they converse; Yea, 'tis like, as I conjectured, are affiftant sometimes to those, to whom they dare not shew themselves in any openness of appearance, lest they should fright them from those ways of Sin and Temptation. that we see, that Men may act by Evil Spirits without knowing that they do fo.

And possibly Nebuchadnezzar's Wise Men might be of this fort of Magicians; which supposal I mention the rather, because it may serve me against some things that may be objected: For, it may be said, If they had been in Consederacy with Devils, it is not probable that Daniel would have been their Advocate, or in such inossensive terms have distinguished their skill from Divine Revelation; nor should he, one would think, have accepted the Ossice of being Provost over them. These Circumstances may be supposed to intimate a probability, that the Magi of Babylon were in no profess Diabolical Complotment, and I grant it. But yet they might, and in all likelyhood did use the Arts and Methods of Action, which obtain Demonaick Cooperation and Assistance, though without

their

their privity, and so they were a less criminal sort of Conjuters; For those Arts were conveyed down along to them from one hand to another, and the Successors still took them up from those that preceded, without a Philosophical Scrutiny or Examen. They saw strange Things were done, and Events predicted by such Forms and such Words; how, they could not tell, nor 'tis like did not inquire, but contented themselves with this general account, That 'twas by the power of their Arts, and were not sollicitous for any better Reason. This, I say, was probably the case of most of those Predictors; though, it may be, others of them advanced surther into the more desperate part of the Mystery. And that some did immediately transact with appearing Evil Spirits in those times, is apparent enough, from express menti-

on in the Scriptures I have alledg'd. And the Story of the Witch of Endor, I Sam. 28. is a remarkable Demonstration of the Main Conclusion; which will appear, when we have confidered, and removed the fancy and glosses of our Author about it, in his Discovery: where to avoid this Evidence, he affirms. This Witch to be but a Cozener, and the whole Transaction a Cheat and Imposture, managed by her Self and a Confederate. And in order to the perswading this, he tells a fine Tale, viz. That the departed from Saul into her Closet, "Where doubtless, "fays he, she had a Familiar, some lewd crafty Priest, and "made Saul stand at the Door like a Fool, to hear the cozen-"ing Answers. He saith, she there used the ordinary words of Conjuration; and after them, Samuel appears, whom "he affirms to be no other than either the Witch her felf, or "her Confederate. By this pretty knack and contrivance." he thinks he hath disabled the Relation from fignifying to our purpose.

But the Discoverer might have consider'd, that all this is an Invention, and without Book. For there is no mention of the Witch's Closet, or her retiring into another Room, or her Confederate, or her Form of Conjuration; I say, nothing of all this is as much as intimated in the History; and if we may take this large liberty in the Interpretation of Scripture, there is scarce a Story in the Bible but may be made a Fallacy and

Imposture,

Impossure, or anything that we please. Nor is this Fancy of his only Arbitrary, but indeed contrary to the Circumstances of the Text. For it says, Saul perceived it was Samuel, and bowed bimself, and this Samuel truly foretold his approaching Fate, viz. That Israel should be deliver'd with him into the hands of the Philistines; and that on the morrow, He and his Sons should be in the state of the Dead; which doubtless is meant by the Expression, that [they should be with bim]; Which contingent Particulars, how could the Cozener and her Consederate foretel, if there were nothing in it

extraordinary and preternatural?

It hath indeed been a great Dispute among Interpreters, whether the real Samuel was raised, or the Devil in his likeness? Most later Writers suppose it to have been an Evil Spirit, upon the supposition that Good and Happy Souls can never return hither from their Coelestial Abodes; and they are not certainly at the Beck and Call of an impious Hag. But then those of the other side urge, that the Piety of the words that were spoke, and the scasonable Reproof given to despairing Saul, are Indications sufficient that they came not from Hell; and especially they think the Prophesie of Circumstances very accidental to be an Argument, that it was not utter'd by any of the Infernal Predictors. And for the fupposal that is the ground of that Interpretation, 'tis judged' exceedingly precarious; for who faith that happy departed Souls were never employed in any Ministeries here below? And those Diffenters are ready to ask a Reason, Why they may not be fent in Messages to Earth, as well as those of the Angelical Order? They are nearer allyed to our Natures. and upon that account more intimately concern'd in our Affairs; and the example of returning Lazarus, is evidence of the thing de facto. Besides which, that it was the Real Samuel they think made probable by the Opinion of Fesus Syrac, Ecclus. 46. 19, 20. who faith of him, That after bis death he prophesied and shewed the King his end: which also is likely from the Circumstance of the Woman's Astonishment, and crying out when the faw him, intimating her furprize. in that the Power of God had over-ruled her Inchantments. and sent another than she expected. And they conceive thereis no more incongruity in supposing God should send Samuel to rebuke Saul for this his last folly, and to predict his instant ruine, than in his interposing Elias to the Messengers of Ahazias when he sent to Beelzebub. Now if it were the Real Samuel, as the Letter expresseth, (and the obvious sense is to be followed when there is no cogent Reason to decline it) he was not raised by the Power of the Witches Inchantments, but came on that occasion in a Divine Errand. But yet her Attempts and Endeavours to raise her Familiar Spirit, (though at that time over-ruled) are Arguments that it had been her custom to do so. Or if it were as the other side concludes, the Devil in the shape of Samuel, her Diabolical Confederacy is yet more palpable.

Have now done with Scot; and his presumptions; and am apt to sancy, that there is nothing more needful to be said to discover the Discoverer. But there is an Author infinitely more valuable, that calls me to consider him, 'Tis the great Episcopius; who, though he grants a sort of Witches and Magicians, yet denies Compacts. His Authority, Icon-

fess, is considerable, but let us weigh his Reasons.

His First is, That there is no Example of any of the Prophane Nations that were in such Compact; whence he would infer. That there are no express Covenants with Evil Spirits in particular Instances. But I think that both Proposition and Consequence are very obnoxious. For that there were Nations that did actually worship the Devil, is plain enough in the Records of Ancient Times; and some so read that place in the Pfalms, The Gods of the Heathen are Devils; and Satan we know is call'd the God of this World. Yea, our Author himself confesseth, that the Nation of the Fews were so frictly prohibited Witchcraft, and all transaction with Evil Spirits because of their proneness to worship them. But what need more? There are at this day that pay Sacrifice and all Sacred Homage to the Wicked One in a visible Appearance; and 'tis well known to those of our own that traffick, and reside in those Parts, that the Caribbians worship the Devil under the name of Maboya, who frequently shews himself, and transacts with them; the like Travellers relate concerning divers other. other parts of the Barbarous Indies: and 'tis confidently reported by sober intelligent Men that have visited those places, that most of the Laplanders, and some other Northern People, are Witches. So that 'tis plain that there are National Confederacies with Devils; or, if there were none, I see not how it could be inferred thence, that there are no Personal Ones, no more, than that there were never any Damoniacks, because we know of no Nation universally possessed; nor any Lunaticks in the World, because there is no Country of Madmen. But our Author reasons again,

(2.) To this purpose; "That the profligate Persons, who are obnoxious to those gross Temptations, are fast enough before; and therefore such a Covenant were needless, and

"of no avail to the Tempters Projects.

This Objection I have answered already, in my Remarques upon the IX Prejudice, and say again here, that if the Designs of those Evil Spirits were only in general to secure wicked Men to the Dark Kingdom, it might better be pretended that we cannot give a Reason for their Temptations and Indeavours in this kind; But it being likely, as I have conjectur'd, that each of those Insernal Tempters hath a particular property in those he hath seduced and secured by such Compacts, their respective Pride, and tyrannical desire of Slaves, may reasonably be thought to ingage them in such Attempts, in

which their so peculiar Interest is concerned.

10

But I add what is more direct, viz. That such desperate Sinners are made more safe to the Infernal Kingdom at large, by such Hellish Covenants and Combinations; since thereby they confirm and harden their Hearts against God, and put themselves at greater distance from his Grace, and his Spirit; give the deepest Wound to Conscience, and resolve to wink against all its Light and Convictions; throw a Bar in the way of their own Repentance, and lay a Train for Despair of Mercy: These certainly are sure ways of being undone, and the Devil we see, hath great Interest in a Project, the success of which is so attended. And we know he made the Assault de fasto upon our Saviour, when he tempted him to fall down and worship. So that this Learned Author hath but little Reason to object,

- (2.) That to endeavour such an express Covenant, is contrary to the Interests of Hell; which indeed are this way so mightily promoted. And whereas he suggests, that a thing so horrid is like to startle Conscience, and awaken the Soul to Confideration and Repentance; I Reply, That indeed confidering Man in the general, as a Rational Creature, acted by Hopes and Fears, and sensible of the Joys and Miseries of another World, one would expect it should be so: But then, if we cast our Eyes upon Man as really he is, sunk into Flesh, and present Sense; darkned in his Mind, and governed by his Imagination; blinded by his Passions, and befotted by Sin and Folly; hardned by evil Customs, and hurried away by the Torrent of his Inclinations and Defires; I fay, looking on Man in this miferable state of Evil, 'tis not incredible that he should be prevailed upon by the Tempter, and his own Lusts, to act at a wonderful rate of Madness, and continue unconcerned and stupid in it; intent upon his prefent Satisfactions, without sense or consideration of the dreadfulness and danger of his Condition; and by this, I am furnished also to meet a fourth Objection of our Author's, viz.
- (4.) That 'tis not probable upon the Witches part, that they will be so desperate to renounce God, and eternal Happiness, and so, everlastingly undo their Bodies and Souls, for a short and trivial Interest; which way of arguing will only infer, That Mankind acts sometimes at prodigious degrees of brutishness; and actually we see it in the Instances of every day. There is not a Lust so base and so contemptible, but there are those continually in our Eyes, that feed it with the Sacrifice of their Eternity, and their Souls; and daring Sinners rush upon the blackest Vilanies, with so little remorse or sense, as if it were their design to prove, that they have nothing left them of that whereby they are Men. So that nought can be inferr'd from this Argument, but that Humane Nature is incredibly degenerate; and the vileness and stupidity of Men is really fo great, that things are customary and common, which one could not think possible, if he did not hourly see them. And if Men of Liberal Education, and Acute Reason, that know their Duty and their Danger, are driven by their Appe-Kk tites.

tites, with their Eyes open, upon the most fatal Rocks, and make all the haste they can from their God and their Happines; If such can barter their Souls for Trisles, and sell Everlasting for a Moment; sport upon the brink of a Precipice, and contemn all the Terrors of the suture dreadful day; why should it then be incredible, that a brutish vike Person, sotted with Ignorance, and drunk with Malice, mindless of God, and unconcerned about a suture Being, should be perswaded to accept of present delightful Gratistications, without duly

weighing the desperate Condition?

Thus, I suppose, I have answered also the Arguments of this Great Man, against the Covenants of Witches; and fince a Person of such Sagacity and Learning, hath no more to say against what I defend, and another of the same Character. the ingenious Dr. Parker, who directed me to him, reckons these the strongest things that can be objected in the Case, I begin to arrive to an higher degree of Confidence in this belief; and am almost inclined to fancy, that there is little more to be faid to purpose, which may not by the improvement of my Confiderations be easily answered; and I am yet the more fortified in my Conceit, because I have, since the former Edition of this Book, fent to several Acute and Ingenious Persons of my Acquaintance, to beg their Objections, or those they have heard from others, against my Discourse or Relations. that I might confider them in this: But I can procure none fave only those few I have now discuss'd, most of my Friends telling me, That they have not met with any that need or deserve my notice.

Ey all this it is evident, that there were Witches in Ancient Times under the Dispensation of the Law; and that there were such in the Times of the Gospel also, will not be much more difficult to make good. I had a late occasion to say something about this, in a Letter to a Person of the highest Honour, from which I shall now borrow some things to my

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present purpose.

fels,

I Say then, (II.) That there were Compacts with Evil Spirits in those times also, is me-thinks intimated strongly, in that faying of the Fews concerning our Saviour, That he cast out Devils by Beelzebub. In his return to which, he denies not the Supposition or possibility of the thing in general; but clears himself by an appeal to the Actions of their own Children, whom they would not tax so severely. And I cannot very well understand why those times should be priviledg'd from Witchcraft and Diabolical Compacts, more than they were from Possessions, which we know were then more frequent (for ought appears to the contrary) than ever they were before or fince. But besides this, There are Intimationsplain enough in the Apostle's Writings of the Being of Sorcery and Witchcraft. St. Paul reckons Witchcraft next Idolatry, in his Catalogue of the Works of the Flesh, Gal. 5. 20. and the Sorcerers are again joyn'd with Idolaters, in that fad Denunciation, Rev. 21.8. And a little after, Rev. 22, 15. they are reckon'd again among Idolaters, Murderers, and those others that are without. And me-thinks the Story of Simon Magus, and his Diabolical Oppositions of the Gospel in its beginnings, should afford clear Conviction. To all which I add this more general Consideration,

(3.) That though the New Testament had mention'd nothing of this Matter, yet its silence in such Cases is not Argumentative. Our Saviour spake as he had occasion, and the thousandth part of what he did or said is not Recorded; as one of his Historians intimates. He said nothing of those large unknown Tracts of America; nor gave any intimations of as much as the Existence of that Numerous People; much less did he leave Instructions about their Conversion. He gives no account of the Affairs and State of the other World, but only that general one, of the Happiness of some and the Misery of others. He made no discovery of the Magnalia of Art or Nature; no, not of those, whereby the propagation of the Gospel might have been much advanced, viz. the Mystery of Printing, and the Magnet; and yet no one useth his filence in these Instances, as an Argument against the Being of things, which are evident Objects of Sense. I con-Kk 2

(4.) That

fess, the omission of some of these Particulars is pretty strange, and unaccountable, and concludes our ignorance of the Reasons and Menages of Providence; but I suppose nothing else. I thought, I needed here to have said no more, but I consider, in consequence of this Objection, it is pretended; That as Christ Jesus drove the Devil from his Temples and his Altars, (as is clear in the Cessation of Oracles, which dwindled away, and at last grew silent shortly upon his appearance) so in like manner, it said, that he banisht him from his lesser holds in Sorcerers and Witches; which Argument is peccant, both in what it affirms, and in what it would infer. For,

(1.) The coming of the H. Jesus did not expel the Devil from all the greater Places of his Residence and Worship; for a considerable part of barbarous Mankind do him publick solemn Homage to this day: So that the very Foundation of the Pretence sails, and the Consequence without any more

adoe comes to nothing. And yet befides;

(2.) If there be any credit to be given to Ecclesiastick Hiflory, there were Persons possessed with Devils some Ages after Christ, whom the Disciples cast out by Prayer, and the Invocation of his Name: So that Satan was not driven from his lesser Habitations, as soon as he was forced from his

more famous Abodes. And I see no reason

(3.) Why, Though Divine Providence would not allow him publickly to abuse the Nations, whom he had designed in a short time after for Subjects of his Son's Kingdom, and to stand up in the Face of Religion in an open affront to the Divinity that planted it, to the great hindrance of the progress of the Gospel, and discouragement of Christian Hopes; Isay, Though Providence would not allow this height of insolent Opposition; yet I see not why we may not grant, that God however permitted the Devil to sneak into some private skulking Holes, and to trade with the particular more devoted Vassals of his wicked Empire: As we know that when our Saviour had chased him from the Man that was possessed, he permitted his Retreat into the Herd of Swine. And I might add

(4.) That 'tis but a bad way of arguing, to fet up fanciced Congruities against plain Experience, as is evidently done by those Arguers, who, because they think that Christ chased the Devil from all his high Places of Worship when he came; that 'tis therefore sit he should have forced him from all his other less notorious Haunts: and upon the imagination of a decency, which they frame, conclude a Fact, contrary to the greatest Evidence of which the thing is capable. And once more

(5.) The consequence of this Imagined Decorum, if it be pursued, would be this, that Satan should now be deprived of all the Ways and Tricks of Cozenage, whereby he abuseth us; and Mankind since the coming of Christ, should have been secure from all his Temptations; for there is a greater congruity in believing, that, when he was forced from his haunts in Temples and publick Flaces, he should be put also from those nearer ones, about us and within us in his daily temptations of universal Mankind; Then, that upon relinquishing those, he should be made to leave all profest Communication and Correspondence with those profligate Perfons, whose vileness had sitted them for such Company.

So that these Reasoners are very fair for the denial of all Internal Diabolical Temptations. And because I durst not trust them, I'le crave leave here to add something concerning

those.

In order to which, that I may obtain the favour of those wary Persons, who are so coy and shy of their assent; I grant; That Men frequently, out of a desire to excuse themselves, lay their own guilt upon the Devil, and charge him with things of which in carnest he is not guilty: For, I doubt not but every Wicked Man hath Devil enough in his own Nature to prompt him to Evil, and needs not another Tempter to incite him. But yet, that Satan endeavours to surther our wickedness, and our ruin by his Inticements, and goes up and down seeking whom he may devour, is too evident in the Holy Oracles, to need my Endeavours particularly to make it good; Only those distinct Men cannot perhaps apprehend the manner of the Operation, and from thence are tempted to believe, that there is really no such thing. Therefore I judge.

judge it requisite to explain this, and 'tis not unsutable to

my general Subject.

In order to it I consider, That Sense is primarily caused by Motion in the Organs, which by continuity is conveyed to the Brain, where Sensation is immediately performed; and it is nothing else, but a Notice excited in the Soul by the impulse of an External Object; thus it is in simple outward Sense: But Imagination, though caused immediately by material Motion also, yet it differs from the external Senses in this, That 'tis not from an Impress directly from without, but the Prime and Original Motion is from within our felves: Thus the Soul it felf sometimes strikes upon those Strings, whose Motion begets such and such Phantasins; other-while, the loofe Spirits wandring up and down in the Brain, cafually hit upon such Filements and Strings, whose Motion excites a Conception, which we call a Fancy or Imagination; and if the Evidence of the outward Senses be shut out by Sleep or Melancholly, in either case, we believe those Representations to be real and external Transactions, when they are only within our Heads; Thus it is in Enthusiasms and Dreams. And befides these Causes of the Motions which stir Imagination. there is little doubt, but that Spirits, Good or Bad, can fo move the Infruments of Sense in the Brain, as to awake such Imaginations as they have a mind to excite; and the Imagination having a mighty influence upon the Affections, and they upon the Will and external Actions, 'tis very easie to conceive how Good Angels may stir us up to Religion and Vertue, and the Evil Ones tempt us to Lewdness and Vice. viz. by Representments that they make upon the Stage of Imagination, which invite our Affections, and allure, though they cannot compel our Wills.

This I take to be an intelligible account of Temptations. and also of Angelical Incouragements; and perhaps this is the only way of immediate Influence that the Spirits of the other World have upon us. And by it, 'tis casse to give an account of Dreams, both Monitory and Temperamental, Enthusiasms, Fanatick Extasses, and the like, as I suggested.

This may suffice for an Answer to the first Pretence, viz. the filence of the Gospel in this Matter. I come to examine the other, That

(2.) M Iracles are ceast, thefore the presumed Actions of Witchcraft, are Tales and Illusions.]

To make a due return to this, we must consider a great and disficult Problem, which is, What is a Real Miracle? And for answer to this weighty Question, I think,

(1.) That it is not the strangeness, or unaccountableness of the thing done simply, from whence we are to conclude a Miracle. For then we are so to account of all the Magnalia of Nature, and all the Mysteries of those honest Arts which we

do not understand.

Nor (2.) is this the Criterion of a Miracle, That it is an Action or Event beyond all Natural Powers; for we are ignorant of the Extent and Bounds of Nature's Sphere and Possibilities: And if this were the character and essential Mark of a Miracle, we could not know what was so; except we could determine the extent of natural causalities, and fix their Bounds, and be able to say to Nature, Hitherto canst thou go and no further; And he that makes this his measure whereby to judge a Miracle; is himself the greatest Miracle of Knowledge or Immodesty. Besides, though an Essect may transcend really all the Powers of meer Nature; yet there is a world of Spirits that must be taken into our Account. And as to themalso I say.

(3.) Every thing is not a Miracle that is done by Agents-Supernatural. There is no doubt but that Evil Spirits can make wonderful Combinations of Natural Causes, and perhaps perform many things immediately which are prodigious, and beyond the longest Line of Nature: but yet these are not therefore to be called Miracles; for, they are Sacred Wonders, and suppose the Power to be Divine. But how shall the Power be known to be so, when we so little understand the Capacities, and extent of the Abilities of Lower Agents? The Answer to this Question will discover the Criterion of Miracles,

which ...

which must be supposed to have all the former Particulars; viz. They are unaccountable, beyond the Powers of meer Nature, and done by Agents Supernatural; And to these must be superadded.

(4.) That they have peculiar Circumstances that speak them of a Divine Original. Their mediate Authors declare them to be so, and they are always Persons of Simplicity, Truth, and Holiness, void of Ambition, and all secular Designs: They seldom use Ceremonies, or Natural Applications, and yet surmount all the Activities of known Nature: They work those wonders, not to raise admiration, or out of the vanity to be talkt of; but to seal and confirm some Divine Doctrine or Commission, in which the Good and Happiness of the World is concern'd, I say, by such Circumstances as these, Wonderful Actions are known to be from a Divine

Cause; and that makes and distinguisheth a Miracle.

And thus I am prepared for an Answer to the Objection, to which I make this brief return, That though Witches by their Confederate Spirit do those odd and astonishing things we believe of them; yet are they no Miracles, there being evidence enough from the badness of their Lives, and the ridiculous Ceremonies of their Performances, from their malice and milchievous Defigns, that the Power that works, and the end for which those things are done, is not Divine but Diabolical. And by fingular Providence they are not ordinarily permitted, as much as to pretend to any new Sacred Difcoveries in Matters of Religion, or to act any thing for confirmation of Doctrinal Impostures. So that whether Miracles are ceased or not, these are none. And that such Miracles as are only strange and unaccountable Performances, above the common Methods of Art or Nature, are not ceas'd, we have a late great evidence in the famous GREATREX; concerning whom it will not be impertinent to add the following. account, which I had in a Letter from Dr. G. R. Lord Bishop of D. in the Kingdom of Ireland, a Person of singular Piety and Vertue, and a great Philosopher. He is pleased thus to write .

"He great discourse now at the Coffee-Houses, and every-" I where, is about M.G. the famous Irish Stroker, con-"cerning whom it is like you expect an account from me. "He undergoes various Censures here, some take him to be "a Conjurer, and some an Impostor, but others again adore "him as an Apostle. I confess, I think the Man is free from "all Design, of a very agreeable Conversation, not addicted "to any Vice, nor to any Sect or Party; but is, I believe, a "fincere Protestant. I was three weeks together with him at "my Lord Conwayes, and faw him, I think, lay his hands up-"on a thousand Persons; and really there is something in it "more than ordinary: but I am convinc'd it is not miracu-"louis. I have seen pains strangely sly before his hand till he "hath chased them out of the Body, Dimness cleared, and "Deafness cured by his Touch; twenty Persons at several "times in Fits of the Falling-Sickness, were in two or three "minutes brought to themselves, so as to tell where their "pain was; and then he hath purfued it till he hath driven "it out at some extream part: Running Sores of the Kings-" Evil dried up, and Kernels brought to a Suppuration by his "hand: grievous Sores of many months date, in few dayes "healed: Obstructions, and Stoppings removed; Cancerous "Knots in the Breast dissolved, Oc.

"But yet I have many Reasons to perswade me, that no"thing of all this is Miraculous; He pretends not to give Te"stimony to any Doctrine; the manner of his Operation
"speaks it to be natural; the Cure seldom succeeds without
"reiterated Touches, his Patients often relapse, he fails fre"quently, he can do nothing where there is any decay in Na"ture, and many Distempers are not at all obedient to his
"Touch. So that I consess, I refer all his Vertue to his
"particular Temper and Complexion, and I take his Spi"rits to be a kind of Elixir, and Universal Ferment; and that
"he cures (as Dr. M. expresseth it) by a Sanative Conta"gion.

This, Sir, was the first Account of the Healer I had from that Reverend Person, which with me fignifies more than the Attestations of multitudes of ordinary Reporters; and no doubt but it will do so likewise with all that know that excellent Bishop's singular Integrity and Judgment. But besides this, upon my inquiry into some other Particulars about this Matter, I received these further Informations from the same Learned Hand.

"As for M. G. what Opinion he hath of his own Gift, and "how he came to know it? I Answer, He hath a different ap-" prehension of it from yours and mine, and certainly be-"lieving it to be an immediate Gift from Heaven; and 'tis no "wonder, for he is no Philosopher. And you will wonder "lefs, when you hear how he came to know it, as I have of-"ten received it from his own Mouth. About three or four " years ago he had a strong impulse upon his Spirit, that con-"tinually purfued him from what-ever he was about, at his "Business, or Devotion, alone, or in company, that spake to "him by this inward Suggestion, I have given thee the Gift of "Curing the Evil. This Suggestion was so importunate, that "he complained to his Wife, That he thought he was haun-"ted: She apprehending it as an extravagancy of Fancy; "but he told her he believed there was more in it, and was re-"folved to try. He did not long want opportunity. There "was a Neighbour of his grievously afflicted with the Kings-"Evil, He stroked her, and the Effect succeeded. And for "about a twelve-month together he pretended to cure no "other Distemper. But then the Ague being very rife in the "Neighbourhood, the same Impulse after the same manner " spoke within him, I have given thee the Gift of curing the "Ague;] and meeting with Persons in their Fits, and taking "them by the Hand, or laying his Hand upon their Breafts, "the Ague left them. About half a year after the accustomed "Impulse became more general, and suggested to him, [I "have given thee the Gift of Healing;] and then he attempted "all Diseases indifferently. And though he saw strange "Effects,

"to no purpose.

"Effects, yet he doubted whether the Cause were any Vertue "that came from him, or the Peoples sancy: To convince him "of his incredulity, as he lay one night in Bed, one of his "Hands was smuck dead, and the usual Impulse suggested to "him to make tryal of his Vertue upon himself, which he "did, stroking it with his other hand, and then it immediately returned to its former liveliness. This was repeated two or three Nights (or Mornings) together.

"This is his Relation, and I believe there is so much since"rity in the Person, that he tells no more than what he believes
"to be true. To say that this Impulse too was but a result
"of his temper, and that it is but like Dreams that are usual"ly according to Mens Constitutions, doth not seem a proba"ble account of the Phanomenon. Perhaps some may think
"it more likely, that some Genius who understood the Sana"tive Vertue of his Complexion, and the readiness of his
"Mind, and ability of his Body to put it in execution, might
"give him notice of that which otherwise might have been
"for ever unknown to him, and so the Gift of God had been

This is my Learned and Reverend Friend's Relation: I shall say no more about it but this, That many of those Matters of Fact, have been since critically inspected and examined by several sagacious and wary Persons of the Royal Society, and other Very Learned and Judicious Men, whom we may suppose as unlikely to be deceived by a contrived Imposture, as any others whatsoever.

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Have now done with my Confiderations on this Subject, which I could wish were less seasonable and necessary than I have reason to believe they are: But, alas! we live in an Age wherein Atheism is begun in Sadducism: And those that dare not bluntly fay, There is no God, content themselves, for a fair step and Introduction, to deny there are Spirits, or Witches. Which fort of Infidels, though they are not fo ordinary among the meer Vulgar, yet are they numerous in a little higher rank of Understandings. And those that know any thing of the World, know, That most of the small Pretenders to Wit, are generally deriders of the belief of Witches and Apparitions: Which were it only a flight, or meer speculative Mistake, I should not trouble my self or them about it. But I fear this Error hath a Core in it worse than Heresie: And therefore how little focver I care what Men believe or teach in Matters of Opinion, I think I have reason to be concern'd in an Affair, that toucheth so near upon the greatest Interests of Religion. And really I am aftonisht fometimes to think into what a kind of Age we are fallen, in which some of the greatest Impicties are accounted but Buggs, and terrible Names, Invisible Tittles, Piccadillo's, or Chimera's. The sad and greatest Instances, are Secrifence, Revellion, and Editchcrast. For the two former, there are a fort of Men (that are far from being profest Enemies to Religion) who, I do not know, whether they own any fuch Vices. We find no mention of them in their most particular Confessions, nor have I observed them in those Sermons that have contained the largest Catalogues of the Sins of our Age and Nation. Twere dangerous to speak of them as Sins, for fear who should be found guilty. But my Businessat present is not with these, but the other, Mitchereft, which I am fure was a Sin of Elder Times; and how comes it about that our Age, which fo much out-does them in all other kinds of Wickedness, should be wholly innocent in this? That there may be Witches and Apparitions in our days, notwithstanding the Objections of

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of the Modern Sadduce, I believe I have made appear in the foregoing Confiderations; in which I did not primarily intend

direct Proof, but Defence.

Against which if it should be Objected, That I have for the most part used only Supposals, and conjectural Things in the vindication of the Common Belief, and speak with no point-blank assurance, in my particular Answers, as I do in the General Conclusion. I need only say, That the Proposition I defend is Matter of Fact, which the Disbelievers impugne by alledging, That it cannot be; or, it is not likely: In return to which, if I shew, how those things may be, and probable, notwithstanding their Allegations, though I say not down-right that they are in the particular way I offer; yet 'tis enough for the Design of Desence, though not for that of Proof: for when one saith a thing cannot be, and I tell him how possibly it may, though I hit not the just manner of it; I yet deseat the Objection against it, and make way for the evidence of the thing de Facto.

But after all this, I must confess there is one Argument against me, which is not to be dealt with, viz. A mighty Confidence grounded upon nothing, that swaggers, and Huffs, and swears there are no Witches. For such Philosophers as these, let them enjoy the Opinion of their own Superlative Judgments, and enter me in the first rank of Fools for crediting my Senses, and those of all the World, before their sworn Dictates. If they will believe in Scott, Hobbs, and Osborne; and think them more infallible than the Sacred Oracles, the History of all Ages, and the full experience of our own, who can help it? They must not be contradicted, and they are resolved not to be perswaded. For this fort of Men, I never go about to convince them of any thing. If I can avoid it, I throw nothing before them, left they should turn again and rend me. Their Opinions came into their Heads by chance, when their little Reasons had no notice of their entrance, and they must be let alone to go out again of themselves the same way they entred. Therefore not to make much noise to disturb these infallible Huffers, (and they cannot hear a little for their own) I foftly step along, leaving them to believe what they think.

I have only this further to add, That I appear thus much concerned for the justification of the belief of Witches, because it suggests palpable and current Evidence of our Immortality. For though we have reasonable Evidence enough from the Attributes of God, the Phanomena of Providence, and the Nature of our Souls, to convince any, but those who will stupidly believe, that they shall die like Beasts, that they may live like them: Yet the Philosophick Arguments that are produced for the Article, though very cogent, are many of them speculative and deep, requiring so great an attention and fagacity, that they take no hold upon the whifling Spirits that are not used to Consider, nor upon the common fort that cannot reach fuch Heights: But they are both best convinced by the Proofs that come nearest the Sense, which indeed strike our Minds fullest, and leave the most lasting Impressions; whereas high Speculations being more thin and subtile, easily slide off, even from Underflandings that are most capable to receive them. This is one of the Main Reasons that engaged me on this Argument, because it affords considerable Evidence of that great Truth. which every Christian ought to be solicitous to have made good.

And really if we compute like Men, and do not fuffer our felves to be abused by the Flatteries of Sense, and the deceitful Gayeties that steal us away from God, and from our selves, there is nothing can render the thoughts of this odd Life tollerable, but the expectation of another: And Wife Men have faid, That they would not have a Moment, if they thought they were not to live again. This perhaps some may take to be the discontented Paradox of a Melancholick, vext and mean Condition, that is pinched by the straightness of Fortune, and envies the Heights of others Felicity and Grandeur; But by that time those that judge so, have spent the Heats of Frolick Youth, and have past over the several Stages of Vanity; when they come to fit down, and

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make fober reflections upon their Pleasures and Pursuits, and fum up the Accompt of all that is with them, and before them, I doubt not but their confidering Thoughts will make Solomon's Conclusion, and find, that 'tis but a misery to live. if we were to live for nothing else. So that if the content of the present Life were all I were to have for the hopes of Immortality, I should even upon that account be very unwilling to believe that I was mortal: For certainly the Pleasures that refult from the Thoughts of another World in those, that not only see it painted in their Imaginations, but feel it begun in their Souls, are as far beyond all the titillations of Sense, as a real lasting Happiness is beyond the delusive Images of a Dream. And therefore they that think to fecure the injoyment of their Pleasures, by the infamy of our Natures, in the overthrow of our future Hopes, indeavour to damm up the Fountain of the fullest and cleanest Delights; and feek for limped Waters in the Sinks and Puddles of the Streets.

But this would afford Matter for another Discourse, into which I must not digress, but here make an end of this.

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Estap VII.

The Summe of

My Lord Bacon's

NEW ATLANTIS.

E parted from *Peru*, with design to pass to *China* and *Japan* by the South Sea: and after we had been long driven up and down by contrary Winds, and wandred in the greatest Wilderness of Waters in the World, without the least hopes of making any Land, in that immense undiscover'd Abyss, that was beyond both the *Old* World, and the *New*; it pleased God to bring us into the Harbour of a most *Angelical* Country, that lay hid in

the greatest Ocean in the Universe.

We found there a People of fingular Goodness and Humanity, who received us with most affectionate kindness, and provided for us with a Parent-like Care and Indulgence: We were lodg'd in a fair Pile of Buildings, call'd the Strangers House, appointed for such Occasions, and there we had all things, both for our Whole and Sick, that belonged to Charity and Mercy. The Governour of that House (a most obliging and benign Person) acquainted some of our number with divers remarkable Matters concerning the Kingdom of BENSALEM (so it was call'd); Particularly, with the strange entrance and beginning of Christianity there, and the excellent Foundation of SOLOMON's House, a Royal Mm 2

Society erected for Enquiries into the Works of God: After little while, one of the Fathers of that House came to the Town where we were. He entred in State; and within few days having had notice of us, he order'd that one of our Company should be brought to him: The rest chose me to wait on the great Man, which I did, and was receiv'd by him with much goodness; He gave me a particular account of the Foundation of Solomon's House, and the State of Philosophy in Benfalem, granting permission it should be declared to the World. Accordingly it was publishe by Verulamius, in his History call'd the NEW ATLANTIS; Summary -> and thus far his Account went.

But now I shall enter upon a Relation of things, of which yet there hath been no News from Benfalem.

On the third day after I had been with the Father of Solomon's House, a Servant came to me from the Governor of ours, just as we had dined, to defire me to spend the Afternoon with him: I received the invitation with a chearful respect, and went immediately with the Officer to attend his Lordship; He led me through the Garden of our House into another, the largest and most beautiful I ever saw; It was encompast with a lofty Stone-Wall; The Stone were blue, naturally streakt with green. It had Mounts, Grotto's, and Summer-Houses, very pleasant and magnificent; The Walks were large, planted with Ever-greens, and the Fruit-Trees (of all forts that we have, and many that we have not) fer in the old Quincuncial, Lozenge Figures, after the manner of the ancient hanging Gardens of Babylon; It had Wilderneffes. Ponds, Aviaries, and all things else that can render such a place agreeable. I could have dwelt in this Paradife; but the Servant led me on into a square Cloyster'd Court, having handsome Buildings on all sides, fenced on the South with a tall Grove of Cedar: The Cloysters were paved with red and green Marble, and supported with pollisht Pillars of a speckled Stone, very clear and shining; Hence we went into a fair spacious Hall adorned with large Maps of all sorts; here were some Servants decently clad, they were playing at Chess; as foon as I entred, they arose, and saluted me very civilly with

a modest sweetness in their looks, that seem'd very obliging. My Guide conducted me up Stairs into a noble Gallery, hung with most excellent Pictures of Famous Men, and Philosophers; and, at which I was much furprized, of some that I had feen. He left me here, to give the Governor notice that I was come; and presently I saw him enter, with a mild chearfulness, mixt with a manly gravity in his Countenance: He had on a long Robe of Purple Silk, and a kind of Turban on his Head of the same colour, which had a Star of Gold wrought on it, worn just before: He imbraced me with much affection, expressing great satisfaction in the opportunity of entertaining me alone: He enquired after the welfare of our People, and whether we wanted any Accommodation, either for our Whole or Sick; I bowed with a low reverence, and answer'd, That we wanted nothing, but an occasion to speak our acknowledgments of the Bounty and Humanity of that bleffed Place; and particularly to express how much we were oblidg'd to his Lordships generous favours: He replyed smiling. That Complements were not in use in Bensalem; and taking me by the hand, he led me into an handsome square Chamber wainscotted with Cedar, which fill'd the Room with a very grateful odour: It was richly painted, gilt, and full of Inscriptions in Letters of Gold: He sate him down on a Couch of Green Velvet, and made me take my place by him.

After some more particular inquiry into the condition of our Sick, of whom I gave him an account, he told me, That the Father of Solomon's House commanded him to acquaint me with the state of Religion in Bensalem, as himself had with the condition of Philosophy there; and that he would have done this too, but that the urgent Business of the Publick State, which lay upon him, would not afford him time; I rose up at these words, and answered with a low submission. That I knew not in what terms to express my sense of the Father's Condescention and Goodness; and that his excellent Relation of the state of Philosophy, and its ways of improvement in that Kingdom, had inflamed me with defire to know what I might, concerning the Affairs of its Religion, fince the formiraculous plantation of Christianity in it; And particularly, Whether it had kept its ancient Purity, and Simplicity in that Realm : Realm; which was lost in most other places? This Question, replyed He, (making me sit down again by him) I shall fully answer in the things I have to say to you; and having paused a little to settle his Thoughts, he began his Narrative in this manner.

FTER the Conversion of this Land by the Evangelism of A St. Bartholomen, (of which you have heard) Religion underwent some Revolutions, that I shall not mention; But take my ground from the last, which hapned no very long time fince: For the understanding which, you must know, That upon the South-West of this place, in the unknown Ocean alfo, lies an Island, famous for the rife it gave to a very spreading Sect in Religion: From this unfortunate Country, came certain Zealous Persons hither, that pretended to extraordinary Illuminations, and to more purity, striciness, and Spirituality, than other Christians; They taught, That our Rites and Government were Superstitious and Anti-christian; That we wanted Pure Ordinances, and Gospel-Worship; That our Good Works, and Christian Vertues, were nothing worth; That the best of our People were but Formalists and meer moral Men; That our Priest's were uninlightned, strangers to the Power of Godliness, and Mysteries of Religion; and that there was a necessity of a thorow Godly Reformation of our Government, and Worthip.

The Men at first were only gazed upon by our People, as strange Persons; But at length, by the vehemence of their Zeal, and glory of their Pretences, they began to make impression on some, who had more Affection than Judgment: By them, and the continuance of their own restless Importunities, they wrought upon others; And in process of time and endeavour, through the secret Judgment and Permission of God, prevail'd so far, that the great Body of the People, especially of those that were of warm and Enthusiastick Tempers, was leaven'd (more or less) with their Spirit and Do-

Ctrines.

Here he stopt a little, and then said; 'Tis wonderful to consider how some Ages and Times are dispos'd to changes; some to one fort of alteration, and some to another: In this

Age, one Sect and Genius spreads like Infection, as if the publick Air were poisoned with it; and again, in that those same Doctrines and Fancies will not thrive at all, but die in the hands of their Teachers; while a contrary, or very different fort, flies and prevails mightily: There is fomething extraordinary in this, the contemplation of which would be noble Exercise, but not for our present purpose: 'Tis enough to note, That the Age at the coming of those Seducers hither, was inclined to Innovation, and to fuch particular forts of it: So that in few years the generality of the Zealous, and less considerate, were tainted with those new and gay Notions; And so possess they were with the conceit of the divineness and necessity of their Fancies and Models, that they despised and vilified the Ecclefiastical Government, and Governors, and vehemently affaulted our most excellent SALOMONA, the King of this Realm, with continual Petitions and Addresses: to establish them by Law, and to change the whole Constitution of Religion, in complyance with their Imaginations: But he was a Wise and Religious Prince; He saw the folly and danger of fuch Alterations, and endeavour'd, by all the ways of Lenity and Goodness, to allay the heat of their unreasonable Profecutions: But they being the more emboldned by this moderate Course, and provoked by the little inclination the good King shew'd to their New Models, broke out, after some less violent struglings, into down-right Rebellion, which after many Revolutions, too long to be mention'd now, fucceeded fo far at last, that the Pious Prince was depos'd and murder'd; the Government usurp'd by the prevailing Tyrants: And, not to mention the diforders of the Civil State that follow'd, the Ecclesiastical was most miserable. For now, all the Sects that have a Name in History in any part of the known World, started up in this Church, as if they had all been transplanted hither: They arose as it were out of the Earth, which feem'd to bring forth nothing but Monsters, full grown at their Birth, with Weapons in their hands ready for Battel; and accordingly they fell one upon another with strange rage and fierceness. For having torn and destroyed the Ancient Doctrine and Government, every one contended to fet up its own, and to have its beloved Opinions and Models.

dels entertain'd and worship'd, as the infallible Truths and Ways of God: So that all places were sill'd with New Lights, and those Lights were so many Wild-Fires, that put all into Combustion. We saw nothing of Religion but glaring Appearances, and Contention about the Shells and Shadows of it. It seem'd to run out wholly into Chaff and Straw; into Disputes and Vain Notions; which were not only unprofitable, but destructive to Charity, Peace, and every pious Practice. All was Controversie and Dissention, full of Animosity and Bitterness; For though they agreed in some common Falshoods and Follies, yet that made no Union; every dissent in smallest Matters was ground enough for a Quarrel and Separation.

But these things were common to them.

All hated the former Constitutions; All cried up their own Clan, as the only Saints, and People of God: All vilified Reafon as Carnal, and Incompetent, and an Enemy to the things. of the Spirit: All had confident, false, and perverse Notions of the Divine Attributes, and Counsels; All decry'd Vertue and Morality as a dull thing, that was nothing in the account of God. All fill'd their Discourses with the words of Light, Faith, Grace, the Spirit; and all talk'd in set Phrases, phancifully and ignorantly about them: All-pretended to great Heights in Knowledge, though that confifted in nothing but an ability to repeat those Phrases of their Sect, like Parrots: All talk'd of their extraordinary communion with God, their fecial Experiences, Illuminations, and Discoveries; and accordingly all demean'd themselves with much sawciness and irreverence towards God, and contempt of those that were not of the same phantastical Fashion: All were zealow in their proper set of Doctrines and Opinions; and all bitterly oppos'd and vilified every different Judgment. Thefe are some of the main things that made up the common Nature of the Parties: In particulars, as I have faid, they were infinitely at variance.

While things were in this condition, some of our Missionaries in Forreign Parts returned, and among the other Books, and Rarities from the World, they brought the Works of some of your Episcopal Divines, and other Learned Men, particularly those of Hammondus, Taylorus, Grotius, &c. Such

of them that were written in English, they translated into Latin, the rather because they judg'd those Discourses very feafonable and proper to obviate the Evil Genius of the unhappy Age. As foon as they came abroad in the general Language, they were read by the fober fort of our Divines with great approbation and acceptance; and from them they had Light and Advantage for the detecting the Follies and Extravagancies of the Times.

For my part, I was then a Student in the University, and therefore shall chuse to relate what effect those Writings had there, and particularly upon divers of my mine own Acquaintance, who are now very considerable in this Church.

and have done great Service in it.

It was one Advantage that the Young Academians had from that unhappy Season, that they were stirr'd up by the general Fermentation that was then in Mens Thoughts, and the vast variety that was in their Opinions, to a great activity in the fearch of fober Principles, and Rules of Life. I shall not undertake to describe the Spirit and Temper of all the Theologues and Students of those Times, but thall give you an account of some that I knew, who have been very useful to the Church in confuting and exposing the Fanatical Principles and Genius, and who derived much of their Spirit and Doctrines from those excellent Authors of your Country.

Here I told the Governor that things had been lately also in our parts much after the manner he had described the Condition of theirs; and that therefore I was very defirous to know by what Ways and Doctrines the People were reduced to a better temper. I faid also, that I had relation to one of our Universities, and on that account likewise was sollicitous to understand how those Academical Divines were formed;

and what they did when they came abroad.

He answer'd, that he was ready to gratifie my desires; but then, faid he, I would not have you think that I magnifie the Persons I shall describe to you, or their Learning and Performances, above all our other Clergy: No, thanks be to God, we have numbers of Excellent Men, famous for their Piety, Learning, and Usefulness in the Church: of whom, by reason of my distance, and constant Imployments in this

Nn place, place. I have no personal knowledge; and therefore I choose to speak only of those that were bred in the University about mine own Time; and the rather, that you may observe the Providence of God in raising Men so serviceable to his Church in the very worst of Days. Having premis'd which, he fell immediately to an account of their Preparations in the University, and thence to a Relation of their Performances after. Of the former he spoke thus;

Hose Divines, of whom I have undertaken to say something, went through the usual course of Studies in the University, with much applause and success: But did not think themselves perfect, as soon as they were acquainted with the knowledge contain'd in Systems: No, they past from those Institutions, to converse with the most Ancient and Original Authors in all forts of profitable Learning. They begun at the top, with the Philosophers of the Eldest Times, that were before the days of Aristotle: They perused the Histories of their Lives and Doctrines, and then read all the remains of them that are extant: They consider'd their Principles, only as Hypotheseis, with Minds free and untainted: They fludied them to know the feveral Scheams of their Opinions, without passing Judgments yet, upon their Truth, or Falshood. They read Plato, and convers'd much with that Divine Philosopher: They acquainted themselves with Aristotle, his great Scholar; and by his Original Writings, they found how much he had been misrepresented and abused by his Commentators, (especially by those of later Times) and faw how different a thing Aristotelian Philosophy was in his own Works, from that which they had met in compendiums, and the Disputing Books that pretended to it: They made themselves intimate with Plutarch and Cicero: And dealt much with the other chief Writers, both Greeks and Romans: By which means, they were well instructed in the History of Philosophy, and the various Thoughts and Opinions of the greatest Men among the Ancients.

But yet, notwithstanding this Conversation with those Sages, They were not so pedantically, and superstitiously fond of Antiquity, as to fit down there in contempt of all later

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Helps and Advancements. They were fenfible, That Knowledge was still imperfect, and capable of further growth, and therefore they looked forward into the Moderns also, who about their time, had imployed themselves in discovering the Defects of the Ancients, in reviving some of their neglected Doctrines; and advancing them by new Thoughts and Conceptions: They read, and confider'd all forts of late Improvements in Anatomy, Mathematicks, Natural History, and Mechanicks, and acquainted themselves with the Experimental Philosophy of Solomon's House, and the other Promoters of it. So that there was not any valuable Discovery made, or Notion started in any part of Real Learning, but they got considerable knowledge of it. And by this Universal way of proceeding. They furnish'd their Minds with great variety of Conceptions, and rendred themselves more capable of judging of the Truth, or likelyhood of any propos'd Hypothesis. Nor did they content themselves with Reading, and the knowledge of Books, but join'd Contemplation, and much thoughtfulness with it: They exercised their Minds upon what they read; They confider'd, compar'd, and inferr'd: They had the felicity of clear and distinct thinking, and had large compass in their Thoughts. By reading they rendred their Understandings full; and by Meditation they kept that fulness from being disorderly and confus'd.

Being thus prepared, They address themselves to the more close, particular, and thorow study of Divinity: They thought it not enough to read a few Systems, and bundles of Novel Opinions, to understand the current Orthodoxy of the Times, or to gain the saculty of speaking to the People in the taking Tone and Phrase, (things that made up the Divines of that Age): But enquired into the state of Religion in former days: They read the Histories of the Church, and applyed themselves to a careful perusal of the Fathers of the three first Centuries: In them they looked for the Doctrine and Practices that were in the beginning: They consider'd, that Religion was most pure in those Primitive Times of Holiness and Martyrdom; and that by knowing what was the belief and use then, they might be enabled to judge better of the more Modern Ways and Opinions: That though other Know

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ledge grew, and was much advanced by Time, yet Divinity was in its perfection, in the days of the Apostles, and nearest Ages to them; and had still been degenerating (more or less) in following Times. That it was therefore best to enquire after the old Ways, and to take the Measures of Faith and Practice, from Primitive Doctrine and Usage; and accordingly they endeavoured to form theirs. They convers'd with the Works of your Excellent Writers, whom I mention'd, and other Learned Men, whom Providence raised about that Season, to direct the World to those eldest, best Patterns. read also the Histories, and observ'd the growth of Sects: They examin'd the Books of the chief reputed Hereticks, and confider'd the Arguments where-with they endeavour'd to effablish their Opinions. They descended even to the Wild Scribbles and Contentions of the several Parties in our distracted Land; They acquainted themselves thoroughly with their Spirit, Principles, Phrases, and ways of Reasoning; as judging, that none could deal effectually in the exposing and confuting any Sect, but those who well understood it. Besides all this. They directed their Studies (many of them) to the Jewish Learning, That they might be instructed in the Rites, Opinions, and Usages of that People, for the better understanding of many things in the Scripture that relate unto them. They enquired into the Reasonableness of the great Principles of Religion, and particularly of the Christian; and provided themselves thereby to deal with Atheists, Infidels, and Enthusiasts, with which that Age abounded. I could fay much more, but this is enough to shew that these Men were qualified to do something in the World.

Here I interrupted the Relation a little, and faid, That it feem'd to me that fuch Preparations should have taken up the better part of their Lives, and not have left much time for Action. He answer'd, That Diligence, Meditation, and a right Method of Studies would go very far, and do mighty Matters in an indifferent Time; and that he who knew the shortest cut, and went constantly on, would pass over a confiderable Defart in a few days, while another that lovter'd, or was ignorant of the way, might wander all his Life in it to little purpose. That those Men took the di-

rect Course, and had the best Guides, the choice Books of all forts; one anothers excellent Company, and improving Converse. That they spent no unprofitable time, among the Voluminous Triflers; and in the confused Rubbish of Learning. That they went straight on towards their end, without diverting to bie and impertinent Matters. They that made even That T their most common Conversations to serve them, in their study of Humane Nature, the Inclinations and Passions of Men: And even the wildness and humours of Sects afforded them instruction in the nature of Enthusiasm, and Superstitions of all So that their Understandings and Observations were advanced far, while their years were not many; and they had the happy Conjunction of the Judgment of Ripe Age, with the vigour of Youth. I bowed to declare my satisfaction, and He went on.

IT will be time now, after the Discourse of their Prepara-tions, to let you know what they did; and what were the Effects of these promising beginnings. This I shall do, By representing

(1.) Some things that were more general.

(2.) Their particular Endeavours in the Affairs of Religion:

(3.) A more full account of their Genius, and Thoughts, in some main Parts of Learning.

I BEGIN with their more General Actions and Declarations of their Thoughts.

Ne of the first things they did, was, to deliver their own Minds (and to endeavour the same for others) from the Prepossessions, and Prejudices of Complexion, Education, and implicit Authority; Afferting the Liberty of Enquiry, and thereby freeing their Reasons from a base and dishonourable Servitude, and vindicating this just Right of Humane Nature. For though they knew, That Green Youth, and Vulgar Inquirers, ought not pragmatically to call their Teachers to account for their Doctrines, or to venture upon deep Speculations culations without affifiance; Yet they thought, that Men who were bred in the way of Study, had first submissly heard the Opinions of their Instructors, and been well acquainted with their Dictates, who were arriv'd to maturity of Understanding, and a good capacity to seek after Truth; might at length be permitted to judge for themselves; that so they might choose, like reasonable Creatures, and not have their Principles brutishly obtruded on them. This they saw was a natural Right, and that the Tyrannical Custom of over-ruling and suppressing it, had held the greatest part of Mankind in

fatal Chains of Ignorance and Error.

Here, I say, They begun, and taught, That all lovers of Truth, whose Judgements were competently matur'd, ought to free their Minds from the Prejudices of Education, and usurping Authorities; that is, so far, as not to conclude any thing certainly true, or falle, meerly on the account of those Impressions: But to try all things, as Scripture and Reason require, and incourage us; and to suspend the giving up our full, and resolv'd affent to the Doctrines we have been taught, till we have impartially confider'd and examin'd them our felves. That in our Refearches, we ought to retain a Reverence for Antiquity, and venerable Names; but not blindly to give up our Understandings to them, against clear Evidence of the Divine Oracles, or Impartial Reason. That when other Confiderations, on both fides, were equal, the Inducements of old Belief, and reverend Authorities ought to determine us to a probable affent on that fide: But when God's Word, or our Faculties food on the other, we ought not to be enclin'd.

Thus they modestly afferted the Liberty of Judgment, and bounded it with so much Caution, that no Prejudice could arise to Legal Establishments from that freedom: For they allow'd it not to immature Youth; or to illiterate or injudicious Men, who are not to be trusted to conclude for themselves in things of difficult Theory: But advised such, to submit to their Instructors, and so practise the plain things they are taught, without busic intermedling in Speculative Opinions, and things beyond their reach. Such a Liberty of Judgment as this they taught, and such was necessary for the Age, in which

which the Minds of Men were inthrall'd by the Masters of Sects, and the Opinions then stil'd Orthodox, from which it was accounted Herefie and Damnation to recede. So that nothing could be done, to fet them at large from those vain Fancies and Ways, till they were perswaded to examine them with freedom and indifference, and to conclude according to the Report of their Faculties. They knew, That Truth would have the advantage, could it but procure an impartial Tryal: That the False Doctrines, and Fanatical Practices of the Times would be detected and sham'd, were it not for the Superflitious straightness that suppress all Enquiry; and that those Old Truths that were exploded with so much abhorrence, would, in all likelyhood, gain upon the Judgments and Affents of all that were free, and durst to be inquisitive. On fuch accounts they prest the Liberty of Judgment; and in a time when it was very feafonable, and no hurt could directly arife from it. Since

(2.) They taught, and urged much modesty together with it; and allow'd not Dogmatical Affirmations, but in things that were most fundamental and certain: They consider'd, That our Understandings at best are very weak; and that the search of Truth is difficult; that we are very liable to be imposed on by our Complexions, Imaginations, Interests, and Affections. That whole Ages, and great Kingdoms, and Christian Churches, and Learned Counfels, have joyn'd in Common Errors; and obtruded false and absurd Conceits upon the World with great feverity, and flaming Zeal; That much Folly, and great Non-sense have many times generally obtain'd, and been held for certain, and Sacred; That all Mankind are puzled, and baffed in the disquisition of the seeming, plainest, and most obvious things; In the Objects of Sense, and Motions of our own Souls: That (in earnest) we cannot tell, How we feak a Word, or move a Finger; How the Soul is united to the Body; or the Parts of Bodies to one another; how our own were framed at first; or how afterwards they are nourish'd. That these nearest things, and a thousand more, are hid from our deepest Enquiries.

Thus they consider'd often, and fill'd their Thoughts with a great sense of the narrowness of humane Capacity, and the

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Imperfections of our largest Knowledge; which they used not to any purposes of unwarrantable Scepticism, or absolute neutrality of Judgement, but to ingage their Minds to a greater wariness in Enquiry, and more shiness of Assent to things not very clear and evident; to more reservedness in their Assirtantions, and more modesty in their Arguings.

After this manner they practifed themselves, and thus they discours'd to others, and nothing could be more proper for those times, in which every one (almost) was immoderately consident of his own way, and thereby rendred insolent in his Distates, and incurable in his Errors; scornful to opposite Judgments, and ready to quarrel all Dissenters; So that the World was hereby fill'd with Animosity and Clamours; whereas modesty in Opinions would have prevented those Mischiefs; and it was taught by those Menas the likelyest way of Cure. For there is no hopes, either of Truth or Peace, while every one of the divided, thinks himself insallible: But when they come to grant a possibility of their being out in their Beloved Tenents, there is something then to work upon towards their better Information.

But (3.) there was still less danger in the Liberty they promoted: for as much as they practifed and perswaded much prudence to be us'd in the publishing of their Tenents; They allowed not any declaration of private Sentiments, when fuch a Declaration might tend to the diffrace or diffettlement of Legal Appointments, or any Articles of the Establish'd Religion; provided there were no Idolatry, or direct Herefie in the things injoin'd: But believ'd, and taught, That Men ought to content themselves with their own Satisfactions, in the Supposed Truths they have discover'd, without clamorous Disputes, or Wranglings. And though in the large compass of Enquiry they took, and the Considerations they had of all forts of Idea's, that enter into the various Minds of thinking Men, it could not be, but that they should have several Apprehensions, different from vulgar Thoughts; Yet they were very cautious in discovering their Conceptions among the illiterate and unqualified; They had no delight in speaking strange things, or in appearing to be singular and extraordinary: They were not so fond of their own Opinions.

Plato

as to think them necessary for all others: Nor were they infected with the Common Zeal, to spread and propagate every Truth they thought they knew: No, they consider'd, there were Truths which the World would not bear, and that some of the greatest would be receiv'd here with the bitterest contempt and derision: So that to publish, would be but to expose them to popular scorn, and themselves also: Their main Defign was, to make Men good, not notional, and knowing; and therefore, though they conceal'd no practical Verities that were proper and feafonable, yet they were sparing in their Specula- x tions, except where they tended to the necessary vindication of the Honour of God, or the directing the Lives of Men: They spoke of other Matters of Notion only among their known Friends, and such as were well prepar'd, able to exainine, and dispos'd to pardon or receive them: Among these they discours'd the greatest, freest Speculations, with as much liberty in their Words, as in their Thoughts; and though they differ'd in many Notions, yet those Differences did nothing but serve the pleasure of Conversation, and exercise of Reafoning: They begot no estrangements or distasts, no noise or trouble abroad.

Such was the prudence that They practifed and taught; and this also was very proper for those Times, when every Man vented his Conceits for Articles of Faith, and told his Dreams for Revelations, and then pretended he was extraordinarily enlightned, and strove to make Proselites, and quarrel'd with all that did not embrace his Fancies, and separated from the Communion of the Church, and endeavour'd to involve the World in Hurries and Distractions; and all this, for the sake of a few pittiful, needless, sensels Trifles: In such a time, this prudent Spirit and Practice was singularly seasonable and useful.

But though they were thus cauteous and wary about Theories more remote, and not necessary; yet they were not altogether indifferent to what Men believ'd and thought: No, They were concern'd, and zealous against the Fanatick Conceits and Humours of the Age, which were the occasions of so much Folly, Irregularity, and Disturbance: And my next Business is to declare in some great Instances, how they demeaned Themselves in opposing of them. This was the second

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thing I undertook to relate; namely, Their particular endea-

vours in the Affairs of Religion.

But before I fall on it; I must declare to you, That They had not any Religion different from that of other Catholick Christians, but were faithful adherers to the old acknowledg'd Christianity, as it was taught by the Church of Bensalem: To this Church they conform'd heartily; though they were distinguishable from some others of her Sons, by the application of their Genius and Endeavours: I have told you, They grew up among the Sects; They were Born and Bred in that Age, which they could not help; But as they order'd the Matter, it was no hurt to the Church, or them, that they were educated in bad times: They had the occasion thence, of understanding the Genius, Humour, and Principles of the Parties, which, those that stood always at distance from them, could not so thorowly and inwardly know: By that means they had great advantage for providing, and applying the Remedies and Confutations that were proper and effectual; And by daily Converse, and near Observation, they setled in their Minds a diflike of those ways, that was greater and juster than the Antipathy of some others who saw only their out-sides. that in many things were specious and plausible. They studied in the Places where some of the chief of the Sects govern'd, and those that were ripe for the Service, preach'd publickly, as other Academical Divines did. This they scrupled not, because they were young, and had been under no explicit ingagements to those Laws, that were then unhappily overruled: But in those, and in their other University-Exercises, they much serv'd the Interest of the Church of Benfalem, by undermining the Ataxites, (so the Sectaries are here call'd) and propagating the Anti-fanatical Doctrines, which they had entertain'd and improved: So that I cannot look upon that Spirit otherwise, than as an Antidote that Providence then seafonably provided against the deadly Infection of those days: On which account, they were by some, call'd the Anti-fanites, because of their peculiar opposition of the Fans, or Fanites. (as the Ataxites were fometimes named): And though some Persons thought fit to judge, and spoke of Them as a new Sort of Divines; Yet they were not to be so accounted, in any sense of disparagement; since the new Things they taught, were but contradictions of the new Things that were introduced; and new Errors and Pretences, will occasion new ways of Op-

position and Defence.

I have now (I doubt) faid the Governor, almost tired you with prefacing, but these things were sit to be premised: I express my self well-pleased, both with the Matters he related, and the order which he thought convenient to declare them in; and so he proceeded to the second main Head; Their particular Principles and Practices.

I MUST tell you then, said He, first, That they took notice of the loud Out-cries and Declamations that were among all the Sects, against Meason; and observ'd, how by that means all Vanities and Phanatick Devices were brought into Religion: They faw, There was no likelyhood any stop should be put to those Extravagancies of Fansie that were impudently obtruding themselves upon the World; but by vindicating and afferting the use of Reason in Religion; and therefore, their private Discourses, and publick Exercises ran much this way; to maintain the fober use of our Faculties, and to expose and shame all vain Enthusiasms: And as Socrates of old, first began the Reformation of his Age, and reduced Men from the wildness of Fansie, and Enthusiastick Fegaries, with which they were overgrown, by pleading for Reason, and shewing the necessity and Religion that there is in hearkning to its Dictates; So They, in order to the cure of the madneß of their Age, were zealous to make Men sensible;

That Reason is a Branch and Beam of the Divine Wisdom; That Light which he hath put into our Minds, and that Law which he hath writ upon our Hearts: That the Revelations of God in Scripture, do not contradict what he hath engraven upon our Natures: That Faith it self, is an Act of Reason, and is built upon these two Reasonable Principles, That there is a God; and, That what he saith is true: That our Erroneous Deductions are not to be call'd Reason, but Sophistry, Ignorance, and Mistake: That nothing can follow from Reason, but Reason; and that what so follows, is as true and certain as Revelation: That God never disparageth Reason, in Scrip-

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ture, but that the vain Philosophy, and Wisdom of this World there spoken against, were Worldly Policies, Jewish Genealogies, Traditions, and the Notional Philosophy of some Gentiles: That Carnal Reason is the Reason of Appetite and Passion; and not the Dictates of our Minds: That Reason proves some Main and Fundamental Articles of Faith, and defends all, by proving the Authority of Holy Scripture: That we have no cause to take any thing for an Article of Faith, till we see Reason to believe that God said it, and in the sense wherein we receive such a Doctrine: That to decry, and disgrace Reason, is to strike up Religion by the Roots, and to prepare the World

for Atheism.

According to such Principles as these, They managed their Discourses about this Subject: They stated the Notions of Faith and Reason clearly, and endeavour'd to deliver the Minds of Men from that confusedness in those Matters, which blind Zeal had brought upon them; that so they might not call Vain Sophistry by the name of Humane Reason, and rail at this, for the fake of Fallacy, and the Impostures of Ignorance and Fancy. Hereby they made some amends for the dangerous rashness of those inconsiderate Men, who having heard others defame Reason as an Enemy to Faith, set up the same Cry, and fill'd their Oratories with the terrible noise of Carnal Reason, Vain Philosophy, and such other misapplyed words of reproach, without having ever clearly or distinctly consider'd what they faid, or whereof they affirm'd: And this they did too at a time when the World was posting a-pace into all kinds of madness; as if they were afraid the half-distracted Religionists would not run fast enough out of their Wits. without their Encouragement and Affistance: And as if their Design had been to credit Phrensie and Enthusiasm, and to disable all proof that could be brought against them. This I believe many of those well-meaning Canters against Reason did not think of, though what they did had a direct tendency that way: And accordingly it succeeded; For the conceited People hearing much of Incomes, Illuminations, Communions, Lights, Discoveries, Sealings, Manifestations, and Impressions, as the Heights of Religion; and then, being told, that Reafon is a low, Carnal Thing, and not to judge in these Spiritual Matters:

Matters; That it is a Stranger to them, and at enmity with the Things of God: I fay, the People that were so taught, could not chuse but be taken with the wild Exstatical Enthusiasts, who made the greatest boasts of these glorious Priviledges; nor could they easily avoid looking upon the glarings of their own Imaginations, and the warmths and impulses of their Melancholy, as Divine Revelations, and Illapses. To this dangerous pass thousands were brought by such Preachments, and had so well learn'd to apply the Doctrines they had been taught, that he that should endeavour to undeceive them, was sure to hear what an Enemy this Reason, this Carnal Reason, this Vain Philosophy, was to Free Grace and Faith; and how little able to judge of those Rich, those Precious, those Spiritual Enjoyments.

'Twas time now, in such an Age as this, to affert the sober use of Reason, and to rescue Religion by it. And They did this happily, and shamed all false pretences to the Spirit,

shewing,

That there was nothing but Nature and Complexion in the Illuminations, Incomes, Raptures, Prophefies, New Lights; fluency of Expression, mysteriousness of Phrase, and other wonderful things of the Enthusialts, which were ignorantly taken to be Divine Communications, to the great abuse of Religion, and the Souls of Men: Perceiving (I say) that this dangerous Phanatick Spirit was the evil Genius of the Age, they bent all their force against it, and detected the impossure, and labour'd zealously to disabuse the credulous People, who were exceeding apt to be taken with such glorious Nothings. (But of this, I shall have another occasion to speak more.)

And because the mildness of Enthusiasm, and reproaches of Reason, had expos'd Christianity it self to the Suspicions of some, and Contempts of others, as if it were a precarious unreasonable thing, that depended only upon Mens Fancies; Therefore here They labour'd also, with very pious pains, to demonstrate the Aruth and Reasonableness of the Engisteen Religion; The Beeing of God; The Immortality of Humane Souls; And Authority of Scripture; which they did with much Zeal, and much Judgment: And these Doctrines

were too feafonable and necessary in that Age, in which the most glorious Professors laid the whole stress of Religion upon Fancies, and thereby undermin'd the Foundations of Faith. and Truth; and by many Vanities, and endless Divisions, had made so many Infidels, and unhappily dispos'd so many others to go the same way: Against these therefore They bent their frength, and rescued multitudes, especially those of the Bringing Generation, from the hands, both of the Enthusiast and the Infidel; Answering and discrediting all the new Pretensions and Objections, both of the one and the other: And their Endeavours here were very needful, because the Ancient Books of those kinds were despis'd and neglected by the concern'd Parties; and they were not fo fuitable to the Guize and Fashion of our Age; and many Exceptions were started a-new. and many other vain things boafted of, to which those elder Discourses did not apply their force: But these new Defenders of the Christian Truths met them all, and spake the things that were fuitable, as well as those that were strong and true: By these means the reasonable sober Spirit began to propagate; and the Enthulialt, who took notice of it, and knew it would destroy his Glorious Imaginations, rais'd a loud clamour against these Men as Socinians, and advancers of Proud Reason, above Free Grace and Faith.

From this envious and foolish Charge, they sufficiently jufished themselves by several Sermons, and publick Determinations in their Academical Solemnities, against the chief Principles of Socinianism, strenuously afferting the Deity of Christ, and Immortality of Humane Souls, &c. and vigorously opposing the main Socinian Tenents: In consequence of which, they shew'd the sure and safe ways to destroy those Opinions, without hurting the Catholick Doctrines, which many had wounded to do them spight; and in this Design some of them

appeared in publick with great success.

TAving thus afferted the Honour of our Faculties, and maintain'd the Fundamental Interests of Religion, They took notice, what unworthy and dishonourable Opinions were publish'd abroad concerning God, to the disparagement of all his Attributes, and discouragement of vertuous Endeavours, and great trouble and dejection of many pious Minds; and therefore here they appear'd also to affert and vindicate the Dibine Goodness and love of Men in its freedom and extent, against those Doctrines, that made his Love, Fondness; and his fuflice, Cruelty; and represented God, as the Eternal Hater of the far greatest part of his reasonable Creatures, and the defigner of their Ruine, for the exaltation of meer Power, and arbitrary Will: Against these sowr and dismal Opinions They flood up floutly, in a time when the Affertors of the Divine Purity and Goodness, were persecuted bitterly with nicknames of Reproach, and popular Hatred. They gave fober Accounts of the Nature of God, and his Attributes, suitable to those Declarations of himself he hath made by the Scriptures, and our Reafons: They shew'd continually how impossible it was that Infinite Goodness should design or delight in the misery of his Creatures: That God never acts by meer arbitrary Will, but by a Will directed by the Perfections of his Nature: That to act arbitrarily is Imperfection and Impotence: That he is tyed by the excellency of his Beeing, to the Laws of Right, and Just, and that there are independent Relations of True and Good among things, antecedent to all Will and Understanding, which are indispensible and eternal: That Goodness is the Fountain of all his Communications and Actions ad extra: That to glorifie God, is rightly to apprehend and celebrate his Perfections, by our Words, and by our Actions: That Goodness is the chief moral Perfection: That Power without Goodness is Tyranny; and Wisdom without it, is but Craft and Subtilty; and Justice, Cruelty, when destitute of Goodness: That God is not pleased with our Praises, otherwise than as they are the suitable Actings of his Creatures, and tend to make them love him, in order to their being happy in him.

By such Principles as These, which are wonderfully fertile, and big of many great Truths, they undermined, and from the bottom overthrew the sierce and churlish Reprobatarian Doctrines; And those Truths they proved from the Scripture, and the Nature of God, and Reason of Things, with all possible clearness, and strength of Evidence.

Bserving further, That Faith was preach'd up as the whole of Religion; and that represented variously, phantastickly, and after an unintelligible manner, drest up in Metaphors and Phrases, and dangerous Notions, that prescinded it from Good Works, and made them unnecessary: Here they appeared also, and detected the vanity and canting of this Airy Divinity; Stating the Notion of Faith plainly and clearly, and

stripping it out of its Chymerical cloathing, Teaching,

That Faith in the general is the Belief of a Proposition affirm'd; and Divine Faith, the belief of a Divine Testimony; and Evangelical, Saving Faith, such a Belief as works on the Will and Affections, and produceth the Works of Righteousness: So that the Faith that is said to justifie, (in the forensick sense) is a complex thing, and takes in an Holy Life, and all the Graces of the Spirit, which are call'd by the name of Faith, because that is the Root of all the rest. Thus they afferted the necessity of a real, inward Righteousness, against the Solifidian and Antinomian Heresies, which had poison'd the whole Body of the then Current Theology, and was counted the only Spiritual Doctrine.

In those days Men were taught, that we are justified only by the Imputed Eighteousness of Christ, by which they said, we are formally Righteous; That Faith justified only as it laid hold of that, (as they phrased it) and that Inherent Righteousness was to be renounced, and had nothing to do here. These were the great dear Mysteries of their Theology, that season'd all their Doctrines and Instructions, which by this means also were rendred exceedingly fanciful and dangerous: Therefore in this likewise, those Divines interposed and demonstrated the vanity and mischief of such fulsome and groundless Conceits; They stated the true and warrantable sense in which

Christ's Righteousness is imputed, viz. Metonymically, and as to Effects; That is, That for the fake of his Righteousness, God was pleas'd to pardon Penitents, and to deal with them upon their Faith, and sincere Obedience, as if they had been Righteous themselves: Not as if he past false. and mistaken Judgements, and looked on Christ's Righteoutnets as really and properly theirs; but that for his take He pardon'd their fins, and accepted of their personal imperfect righteousness, as if it had been perfect. shew'd that this account was agreeable to Scripture, and the Analogy of found Faith, and Practice; and that the other sense was no-where deliver'd in the holy Oracles, but was a meer imagination contrary to the Attributes of God, and to the Doctrines, and defigns of the Gospel, and exceedingly pernicious to Christian Life, and Vertue: They alledg'd that Christ's Righteousness is no-where in Scripture said to be imputed: That he is no otherwise made Righteousness to us then he is made Sanctification, and Redemption; that is, He is the great Author and procurer of them; and that in that sense he is the Lord our Righteonsness. They took notice how that by this odd Fanatick principle, Personal Righteousness was undermin'd, and disparaged; and one of the first things the people were taught, was, to renounce their own Righteousness, without restriction, or limitation, in which Counsel there is much (here of humility; but much non-sense and much danger, if it be not deliver'd, and taken in a cautious sense: For the Apostles, and primitive Believers never renoune'd any Righteousness, but that of the Mosaical dispensation, in which some of them had gloried much before their conversion; But after it, were convinc'd, It was nothing worth, and counted it as drofs, and dung in respect of that Righteonsness that Christ taught: They never disparaged real, inward Righteousness: Yea they took ground of confidence, and rejoycing from it, viz. from the simplicity and fincerity of their conversation, from their having a good Conscience in all things; from their stedfastness amidst Tribulations, and patience in their Sufferings; and they plainly tell us, That Religion was doing Righteousness, and consisted in visiting the Widow and Fatherless, and being unspotted with the World; in denying all ungodliness, and worldly lusts, and living soberly, righteoufly, Pp

righteoufly, and Godly; They warn us to beware of those deceivers that would perswade a man may be righteous; without doing righteous; yea they declare the promises to be entail'd upon those, that by patient continuance in well-doing seek for Glory, and Immortality.

But said He, I forget my self, and run out too far into this Discourse, in which I suppose I need not inform you, the

Scriptures being so full in it.

Here I took liberty to move a Question, and ask'd him, Whether those Divines did teach, or allow Mens relying, and depending on their own inward Vertues, or outward Works? To this he faid, They had not the least imagination, that there was either Merit, or Perfection in our qualifications, or performances; but that in those respects they renounc'd their own righteousness, and obedience: That they acknowledg'd, and declared that our highest, best services could never deserve the divine notice, or acceptance by any worthiness in them; But then, added He, They faid also, that Christ's obedience was Perfect, and Meritorious, and that God was so well satisfied with it, that for bis sake he promised to pardon the failings of our duties, and to accept of Sincerity infread of Perfection: That on this account, our short, defective righteousness was receiv'd, as if it had been adaquate, and compleat; we being through Christ, under a Covenant of Grace, and Pardon, and our obedience not judg'd according to strict measures, and proportions, but by the rules of mercy, and favour. Thus they stated that matter clearly, and struck at the root of Antinomian follies, and impostures.

And because Morality was despised by those elevated Fantasticks, that talk'd so much of Imputed Righteousness, in the salse sense; and accounted by them, as a dull, and low thing; therefore those Divines labour'd in the afferting and vindicating of this: Teaching the necessity of Moral Vertues; That Christianity is the highest improvement of them; That the meer first-table Religion is nothing, without the works of the second; That Zeal, and Devoutness, and delight in Hearing, Prayer, and other externals of worship, may be in very evil men: That Imitation, and Custom, and Pride, and Self-

love

love may produce these: That these are no more then the Forms of Godliness: That the power of it consists in subduing self-will, and ruling our passions, and moderating our appetites, and doing the works of real Righteousness towards God, and

our Neighbour.

And because there was a Religion that had got into credit, that did not make Men better, but worse in all relations, worse Governours, and worse Subjects, and worse Parents, and worse Neighbours; more sower, and morose, and sierce, and censorious; Therefore, They prest Men to consider, That the design of Religion was to perfect humane Nature; To restore the empire of our minds over the will, and affections; To make them more temperate, and contented in reference to themselves, and more humble, meek, courteous, charitable and just towards others. On such things as these, performed sincerely, by the assistance, and encouragement of Faith in Christ, and from a desire to be ruled by his Laws, they lay'd the whole stress.

And being the Age was unhappily dispos'd to place much Religion in their conceited Orthodoxy, and Systems of Opinion, to the destruction of Charity, and Peace; To the dissettement of Religion, and great hinderance of real Godliness: They therefore zealously decryed this superstition of Opinions, and simartly reproved Disputings, and eagerness of contest about Notions, and lesser Truths: Shewing the inconveniencies, and mischiess of that spirit, and it's inconsistency with Charity, and the peace of Mankind: They perswaded modestly in all extraessential Doctrines, and suspence of judgement in things that were not absolutely certain; and readiness to pardon the mistakes of those that differ from us in matters of speculation.

In order hereunto, They made this one of their main Docetrines; That The principles which are necessary to Salvation are very few, and very plain, and generally acknowledg'd among Christians: This they taught, and were earnest in it, because they saw it would secure Charity to differents, and prevent all vehemencies of captious dispute, all schisins, and unnecessary separations, and many Wars, and Persecutions upon the ac-

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count of Religion: For if the things in which Men differ, be not Religion, be not Faith, and Fundamental; If this be true, and this truth acknowledg'd, All these would want pretence; and so Peace and Unity would possess the spirits of Men. They faw that Religion, which was shaken by divisions, and rendred suffected of uncertainty through the mixture of uncertain things, would stand fafe, and firm when 'twas lay'd only upon the plain, infallible, undoubted propositions: That holiness would thrive, when Mens zeal was taken off from talking, and disputing against others, and directed inwards to the government of themselves, and the reformation of their own hearts, and lives: That Papifm, which in those times of distraction began to spread even here, would drop to the ground, if it were believed, That the necessary principles of Religion were few, and plain, and those agreed on: For then there would be no need of an Infallible Interpreter, and Judge: I fay, They were fensible, that all the great Interests of Religion, and Mankind might be ferved by the acknowledgment of this one Reasonable Principle; which they saw was the only way to bring us to stability, and consistence; to Peace, and Union.

In Consequence of this Spirit, and Doctrine, they discours'd the things wherein they differ'd from others, with mildness, and modesty, without anger, and damning sentences; and afforded their converses to all forts of good Men, though they believ'd them mistaken: They never exprest rage in their conversations, or discourses against bare errours, and mistakes of judgment: But for the pride, and considence, censoriousness and groundless separations, that are the frequent attendants of different opinions; These sometimes mov'd them to anger, and expression of just resentment; because they look'd on them as great Immoralities, and very pernicious sins: And on the occasion of these spiritual vices, they were warmed with zeal, against the Sectaries, and Bigots; for the taking down of whose pride, and considence, They thought it necessary to detect the Impostors, and to expose their vanities; which they

did successfully, and shew'd:

That their Divinity consisted most in Phrases; and their boasted spirituality, in fond affections: That their new lights were but freakish fancies; and old Hereses revived; and the precious

precious Mysteries of their Theology, but conceited absurdities, and non-sense in a fantastick dress: They happily drew the parallel between our Separatists, and those antient ones, the Pharisees; and proved that the same spirit acted the Ataxites, that govern'd those Jewish Fanaticks: And because their pretences were taking, and specious, and had caught great numbers of the easie, well meaning people of Bensalem; Therefore, to disabuse them, they labour'd much to shew the shortness of their kind of Godliness; and the danger of placing all Religion in Praying, Hearing, Zeal, Rapture, Mysteries, and Opinions:

Accordingly, they declar'd, and prov'd, That 1. Fluency, and Pathetick eloquence in fuddain Prayer may proceed, and doth, many time, from excited passion, and warm imagination; from a peculiar temper, and heated melancholly: That these are no sign that a man prays by the spirit, nor do they argue him to be one jot the better, then those that want the faculty, or any whit the more accepted of God for it: That to pray by the spirit is to pray with Faith, Desire, and Love; and that a

Man may pray by the firit, and with a Form.

2. That people may delight to bear from other causes. then conscience, and a desire to be directed in the government of their Lives: That hearing is very grateful to some, because it feeds their opinions, and furnisheth their tongues, and inables them to make a great shew of extraordinary Saint-ship: They represented that meer animal Men. and fond lovers of themselves may be much taken with hearing of the Gracious promises, and Glorious priviledges of the Gospel; when at the same time, they are told they are all theirs, and theirs peculiarly, and exclusively to the rest of Mankind: That pride, and vanity, and felf-love will recommend, and indear such preaching; That it is most luscious to fond, and conceited men, to hear how much better, and more precious they are then their Neighbours; how much dearer to God, and more favour'd by him; what an interest they have in free, distinguishing Grace, and how very few have a share in it, besides themselves: How their enemies are hated of God, and how sad a condition they are in, who differ from them in practices, and opinions: To doat on fuch preaching, and admiringly

admiringly to follow such Preachers, They shew'd, was but to be in love with flattery, and self-deceit: That it was no sign of Godliness, but an evident argument of pride, malice, and immoderate selfishness; That these are the true causes of the zeal, and earnestness of many after Sermons; and of the pleasure that they have in hearing, though they would persuade others, and believe themselves, that the love of Religion, and sence of duty are the only motives that prevail with them.

3. Concerning zeal, They taught; That zeal in it self is indifferent, and made good, or bad, as it's objects, and incentives are; That meer education, and custom, natural consciences and particular complexion, do sometimes make Men very zealous about things of Religion: That though the fervours of the Ataxites for their Doctrines, and ways, were not all feigned; but real and fincere; Yet their zeal was nothing worth, being but meer natural passion, kindled by a fond delight in their own felf chosen practices, and opinions; That their coldness to the great known necessary duties of Justice, Charity, Obedience, Modesty, and Humility was an evident fign, that their heat for pretended Orthodox tenents, and modes of worship, had nothing Divine in it: That true zeal begins at home with felf-reformation; and that where it was imployed altogether about amendments of external Religion, and publick Government, it was pernicious, not only to the World, but to a Mans self also.

4. And because the *heights* of zeal ran up sometimes into raptures, and exstacles, which were look'd on as wonderful appearances of God in the thus transported persons; Therefore, here also They undeceived the people (as I said in the

general before) by shewing,

That these alienations may be caused naturally, by the power of a strong fancy, working upon violent affections: That they together may, and do, oft, produce deliquiums of sense; That the Imagination working then freely, and without contradiction, or disturbance from the external senses, and being wholly imploy'd about Religious matters may form to it self strange Images of extraordinary apparitions of God, and Angels; of Voices,

Voices, and Revelations; which being forcibly imprest on the fancy, may beget a firm belief in the exstatical person, that all these were divine manifestations, and discoveries; and so he considently thinks himself a Prophet, and an inspired Man, and vents all his conceits for Seraphick truths, and holy Mysteries: And by the vehemency of his affirmations, and the strange effects of his distemper, others are perswaded into the same vain opinion of him, that he hath of himself, to the great disparagement of Religion, and deception of the simple.

This whole mystery of vanity, and delusion They lay'd open to the World, and shew'd, that all was but a natural disease, and far enough from being sacred, or supernatural: That very evil Men, and even the Heathen Priests have felt all those effects, and pretended to the same wonders; and were as much inspired, and divinely acted, as those exstatical Dreamers:

5. And whereas those high flown Enthusiasts talk'd much of mysteries; and the Sects, (generally contending which should out-do the other here) made up their schemes of divinity of absurdities, and strange, unintelligible fancies; and then counted their groundless belief of those wild freaks, a great fign and exercise of Faith, and spirituality; The Divines (of whom I am speaking) imploy'd themselves worthily to detect this taking imposture also; They gave the true senses in in which the Gospel is a mystery, viz. A secret, hid in the councils of God, and not discoverable by reason, or humane enquiries till he was pleased, in the fulness of time, to unfold it clearly, and explicitly by his Son, and by his Spirit, who revealed the mystery that had been bid from ages: That Religion may vet be call'd a mystery, as it is an Art that hath difficulty in the pra-Ctice of it: And though all it's main, necessary Articles are asferted so clearly, that they may be known by every fincere Inquirer, and in that respect have no darkness, or obscurity upon them; Yet They afferted, that some of those propositions may be styled mysterious being inconceiveable as to the manner of them: Thus the Immaculate Conception of our Saviour, for inflance, is very plain as to the thing, being reveal'd clearly, That it was; Though unexplicable, and unreveal'd as to the mode, How: They faid, That our Faith is not concern'd in the the manner; which way this, or that is, except where it is expressly, and plainly taught in Scripture; but that the belief of the simple Article is sufficient: So that we are not to puzzle our selves with contradictions, and knots of subtilty, and fancy, and then call them by the name of mysteries: That to affect these is dangerous vanity, and to believe them, is silliness, and credulity: That by, and on the occasion of such pretended mysteries, The simplicity of the Gospel hath been destroy'd, the minds of Men infatuated, sober Christians despis'd, the peace of the Church disturb'd, the honour of Religion expos'd, the practice of holiness and vertue neglected, and the

World dispos'd to Infidelity, and Atheism it self.

6. And fince the being Orthodox in Doctrine, and found in their new conceited Faith, was in those times a great matter, and one mark of Saint-ship; as errour on the other hand was of unregeneracy, and Reprobation; They shew'd, That bare knowledge of points of Doctrine was nothing worth, in comparison of Charity, Humility, and Meekness; That it did not fignify in the divine effect without these, and such other concomitant Graces: That a man was never the better for being in the right opinion, if he were proud, contentious, and ungovernable with it: That ignorance, and mistake in leffer things when joyn'd with modesty, and submission to God, and our Governours, was much to be prefer'd before empty turbulent, and conceited Orthodoxy: That errors of judgment are truly infirmities, that will not be imputed, if there be no corrupt, and vicious mixture with them: That they are not hurt to him whom they do not seduce, and mislead; nor do they make any alteration in our state: That God pardons them in us, and we ought to overlook and pass them by in one another.

By fuch ways and representations as these They disabl'd the main works wherby the fond Ataxites concluded themselves to be the Godly; and destroy'd the chief grounds on which they built their proudest pretences. So that their wings being clipt, they came down to the ordinary level with other mortals; leaving the title of Godliness, and Saint-ship to be made out by quiet devotion, and self-government, by Meekness, and Charity,

Charity, Justice, and Patience, Modesty, and Humility, Universal Obedience to Gods Commands, Reverence to Superiours, and Submission to Governours; and not by the other fantastical, and cheap things, confisting but of imaginations, and phrases, and mustical nothings.

Nod for as much as each Sect confin'd the Church, Saint-(hip, and Godliness to it self, and entail'd the Promises, and Priviledges of the Gospel upon it's own People; Therefore here They flood up, and reprov'd the Anti-christian pride and vanity of that cruel, and unjust humour; Shewing, That the Church confilts of all those that agree in the profession, and acknowledgment of the Scripture, and the first comprehenfive, plain Creeds, however scatter'd through the World, and distinguish'd by names of Nations, and Parties, under various degrees of light, and divers particular models, and forms of Worship, as to circumstance, and order: That every lover of God, and of the Lord Jesus Christ in fincerity, who lives according to the few, great acknowledg'd Doctrines, and Rules of a vertuous and holy life, is a true Christian, and will be happy; though he be ignorant of many points that some reckon for Articles of Faith, and err in some, which others account sacred, and fundamental: By which Catholick principle, foundation is lay'd for universal Charity, and Union; and would Christian men be perswaded to govern themselves according to it, all unnecessary Schisms, and Separations would be prevented, and those Hatreds, and Animosities cur'd, that arise from lesser disagreements.

A Gain, whereas as the Ataxites had made Religion a fanta-A stick, and unintelligible thing, (as I have told you) and dreft it up in an odd, minming, and ridiculous difguise; Those Divines labour'd much to reduce it to it's native plainness, and simplicity; purging it from sensless phrases, conceited mysteries, and unnecessary words of Art; Laying down the genuine notions of Theology, and all things relating to Faith, or Practice, with all possible perspicuity, and plainness: By which means many scandals were remov'd, and vain disputes discre-

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dited, divisions stop'd, Religious practice promoted, and the peace of the Church at last establish'd. They told the Ataxites that though they talk'd much of closing with Christ, getting in to Christ, rolling upon Christ, relying upon Christ, and having an interest in Christ; and made filly people believe that there was something of Divine Mystery, or extraordinary spirituality under the found of these words; That yet, in good earnest, either they understood not what they faid, and mean'd nothing at all by them; or else the sense of them was but believing Christ's Doctrines, obeying his Laws, and depending upon his Promifes; plain, and known things: They shew'd that all the other fingular phrases, which they us'd, and which the people were so taken with, were either non-sense, and falsebood; or but some very common, and ordinary matter at the bottom: That they had generally filly, and fantastick conceptions of Free Grace, Gospel-liberty, Saving knowledge, Pure Ordinances, The motions of the Spirit, Workings of Corruption, Powerful preaching, Liberty of Conscience, Illuminations, and Indwellings: That their Admirers generally talk'd those words by rote, without knowing the meaning of them; and that the Teachers themselves understood them in a false and erroneous sense: That bating fuch words, and the talk of Outgoings, Incommings, Givings-in, Dawnings, Refinings, Withdrawings, and other Metaphors, there was nothing extraordinary in their whole Divinity, but the non-sense, and absurdities of it: Thus They declar'd freely against the Gibberish of that Age, and stated the right Notion of those points of Religion, which the others had so transformed, and abused.

Further: Whereas the Sects kept up loud cryes against the Church of Bensalem, as guilty of Superstition, Will-worship, undue Impositions, and Persecution; They took them to task

bere also and declar'd,

That Superstition in the properest sense of it, imports, An over-timerous, and dreadful apprehension of God, which presents him as rigid, and apt to be angry on the one hand; and as easie to be pleas'd with flattering devotions on the other; so that Superstition works two wayes, viz. by begetting

getting fears of things, in which there is no hurt; and fondness of such, as have no good in them: on both which accounts they declar'd the Ataxites to be some of the most Superstitious people in the World: They shew'd, That their dreadful notions of God, which represented him as one that by peremptory, unavoidable decrees had bound over the greatest part of men to everlasting Torments, without any consideration of their sin, only to shew the absoluteness of his power, over them; I say, They declar'd that those black thoughts of Him, were the Fountain of numerous superstitions: That their causles's fears of the innocent Rites, and usages of the Church of Bensalem, which were only matters of order, and decency, appointed by the Governours of the Church, and not pretending any thing, in particular, to divine Institution, was very gross, and filly superstition: That they were very superstitious in being afraid, and bogling at prescribed Forms of Prayer; kneeling at the holy Sacrament, the Cross in Baptism, and the like becomming, and decent Institutions: That 'twas Ignorance, and Superstition to fly off with such dread from a few injoyn'd Ceremonies, because (forfooth) they were symbolical, and significant; That the Ceremonies that are not so, are vain, and impertinent: That the Ruling Powers may appoint such, for the visible instruction, and edification of the People, and for the more reverence, and solemnity of Worship: That the current principle among them, That Nothing is to be done in the Worship of God, but what is particularly commanded, and prescribed in Scripture 7 is a foolish, groundless conceit, and the occasion of many Superstitions: That though this is always pretended, and said, yet it was never proved: That to observe the Church in such appointments, without any opinion of their antecedent necessity, is a due act of obedience to it; But to fly from them as sinful, and Anti-christian, is great Superstition.

Their things they declar'd, and prov'd against the negative

Superstitions of Taste not, Touch not, handle not:

And They shew'd also, how justly chargeable the Ataxites were with many Positive ones; in that they doated upon little, needless, foolish things, and lay'd a great stress of Religion upon them: That the keeping such stir about pretended Or-Qq2 thodox

thodox opinions, and the placing them in their Creeds, among the most facred and fundamental Doctrines, was a dangerous and mischievous Superstition: That it was very superstitions to dignify private conceits, or uncertain tenents, with the style of Gospel-light, Gods Truths, precious Truths, and the like expressions of admiration, and fondness: That to intitle the Spirit of God to the effects of our imaginations, and the motions of natural passions, was Superstition; and that so was the opinion of the necessity, and spirituality of suddain conceived prayer: That there was much Superstition in their Idolizing their particular ways of Worship, and models of Discipline, as the pure Ordinances, and Christs Government, and Scripture Rules: And that in these, and many other respects they that talked so much against Superstition, were themselves most notoriously guilty of it.

As to Will-worship They taught, (after your most learned Hammondus) That the Apostle in the only place where it is mention'd, Col. 2. doth not speak of it, in an evil sense; But that εθελοθρησικία imports a free, and unconstrain'd worship. which is the more acceptable for being fo: That Sacrifices before the Law; Free-will-offerings under it; The feafts of Purim, and Dedication, Davids design of building the Temple; the Austerities of the Rechabites; and St. Paul's refusing hire. for his labour among the Corinthians, were of this fort. That men are not to be blamed for Will-worship, except they would impose it without Authority, as necessary. That when they thus teach for Doctrines their own Traditions, and grow so proud, and conceited with them, as to feparate, from the publick Communion, upon the fancy that they are more pure, and holy then others; That this their Will-worship is sinful, and Pharisaical; which was the case of the Ataxites, who therefore were Will-worshippers in the evil sense; But the Anti-fanites shewed, that the pious Institutions of just Authority were no way lyable to any fuch imputation:

That such might impose particular Circumstances, and Decencies, and that those Impositions were no way contrary to Gospel Liberty: That that was only Freedom from the Jewish yoke, from the bondage of sin, and power of Sathan: not Li-

herty from the Injunctions, and Appointments of Civil, or Ecclefiaffical Governours: That all, or the chief power of thefe, conconfisted in fixing, and appointing circumstances of order, and decorum, that were left undetermined, and not prescrib'd in Scripture: That if they may not do this, they are in a manner useless: That the Church of Benfalem impos'd nothing that was grievous, or prohibited: They minded the Ataxites that themselves were great Imposers, That they imposed Oaths; and Ceremonies in that part of Religious Worship, a form of words, the lifting up of the hand; and That they would have impos'd numerous, doubtful, and false opinions, to have been Subscrib'd as a necessary Confession of Faith; making thereby their own private tenents of equal moment, and certainty with the great fundamental Articles, which is proper impoling upon the Conscience: That they would not by any means allow Liberty of Conscience, when they were in power; that this then was the great Abomination, and the most accursed thing in the world: That they persecuted the Bensalemites for their Consciences with wonderful inhumanity; That when other power is taken from them, they are grievous persecutors with their Tongues, and are continually shooting the Arrows of bitter, scornful words against all that are of different judgment.

Thus Those Divines disabled all the charges, and pretences of the Fanites; and turn'd the points, and edge upon them-And they manag'd their Rebukes of these self-condemn'd men, with much judgment, and wit, without any thing of fierceness, or scurrility: They shew'd them the Immorality of their spirit, and it's contradictions, and antipathy to the genius, and temper of the Gospel; and urged, That though they hated debauchery, and some gross Carnal fins, as the Pharifees did the Publicans, Yet they were given up to many other forts of wickedness, to spiritual Pride, Malice, Envy, Avarice, Stubbornness, Disingenuity, and Disobedience: That they harbour'd, and kept warm these, under their pretences of Christs Rightconsness, and their specious forms of Godliness: That though they were always confessing sin, in the general, with much feeming remorce, and trouble of spirit, yet they seldom, or never, made acknowledgements of these. That

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though they lov'd to hear the sins of Drunkenness, and Prophaneness vehemently declaim'd against; Yet they could not endure
to have these throughly detected, and reprov'd: That even
their own Teachers durst not touch here, and that when others
did it, though without naming parties or pointing out persons,
they call'd it Railing and Persecution; and made no other use
of those just rebukes: That though they shew'd great seeming
tenderness of Conscience in other smaller matters of Mint, Annise,
and Cummin; Yet they seldom appear'd sensible, or troubl'd at
their transgressions in those greater matters of the Law.

. A Nd because these people were always making complaints. and fad moans of their fins, without endeavouring to amend; Those Divines represented to them, that such complaints were but forms, and a fashion that they followed: That fad looks, and whinings, were but a shew of Humility, and Repentance: That if they were sensible of their sindeed, they would use the Grace of God to overcome them, till at last they arriv'd at victory; and not still continue in a state of whimpering, and complaining: That these men cousened themselves into a false opinion of their penitence, and were perswaded, that this was enough without conquest, and true reformation of heart, and life, that their remaining fins were but infirmities, and the spots of Gods children, which were covered with Christs Righteousness, and not seen in the Elect: By which they deluded themselves into dangerous presumption, and security. These our Divines endeavour'd to destroy, and to pluck away the fig-leaves of all their false, and imperfect marks of Godlines; and shew'd that their usual complaints, were but like the noise of Parrots, without an inward sence; That when men were only sensible, and forry, they were yet but under the Lam, and a state of bondage: That the Gospel aims at Liberty, and Victory, and that we are but just entred, and are yet very imperfect, till we have attain'd some considerable measure of that: That the great mark of fincerity, is, to be proceeding, and going forwards, and towards the conquest of finful habits and inclinations: That we are not to look on these, as failings, and infirmities, and so sit down contented with some tears, and customary customary confessions under the power of them: That Instrmitter are but single acts, and such too as have not the will in them: That God hath afforded us sufficiency of means, and helps enough to subdue all the evils of our natures; and that if we neglect to use those aids, and live at rest under any sinful appetites and passions, we are Hypocrites, and our boasted Faith, and spiritualities will signify nothing to us.

Here the Governour made a little stop, and then said; I have run over these things as they offer'd themselves to my mind; I might have set them in a better order, and have added many other particulars, but as to method, there is no great need of curiosity in it in such a relation: By the things I have told you, you may gather what was the Genius of those Divines in many others, which for brevity I omit.

I faid, that though one might collect the opinion of many matters more, by what he had been pleas'd to represent to me; yet there were two things which I had a desire to be informed in further, viz. Their Notion of Free Grace; and

Justification by Faith.

Their Docfrines about these, answer'd He, might in great part be gather'd from some of those principles I have mention'd; but however I shall gratify you with a short account of them:

For free Grace, it was ever in the mouths of the Ataxites, and they seem'd to be transported, and ravish'd in the admiration of it: But their notion was very perverse, and false: For they made it an arbitrary kindness, bestow'd upon some very few persons, for no reason in the world; Not for the sake of any vertue, or divine qualifications, but only for meer, uncountable will, and pleasure: And said, That God from this Free Grace (as they call'd it) chang'd the hearts of the Elect by an immediate, irresistible power; and created Faith, and other Graces in them, in the same way of omnipotent operation.

Against these dangerous conceits, they taught, That God loves Vertue, and Holiness, and is no fond Respecter of Persons: That those are the proper objects of his special kindness: That there was a general Grace which had appear'd unto all men, in

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the light of Reason, the Laws written upon our hearts, and common aids of the Spirit: That it's freedom, confifted in it's universal diffusion through the world without let, or impediment; and in the spontaneity of it: This said he may seem somewhat a bard word; but I have no plainer to express the fulness of my sense by; and I never use a difficult term, when the thing can be spoke as well in one that is more exsie and familiar. Ianswer'd, that I understood it very well, and that he meant that Gods Grace was willing, and unfore'd; flowing from the benignity of his nature; still communicating it self to all Subjects that were capable: You apprehend me right, continued the Governour, and thus he hath imparted himself to all Mankind: But then added He, There is a Grace, more special, that concerns Christians only, without us; the declaration of the Gospel: and within us; those divine vertues that are wrought by them, and therefore call'd Graces: He faid, The Gospel perfwadeth without force, and God works upon us by it, in a way proper, and sutable to reasonable Creatures, by our Reasons, and our Interests, by our Hopes, and our Fears: affilling all good defires, and endeavours by the operation of his holy Spirit.

This, faid he, acts as a General Cause, according to the dissiplination of the Subject: our endeavours would be weak and fruit-less without it; And yet, It never works alone by meer omnipotence, without our endeavours: They operate in conjunction, as the Sun, and moysture of the earth, and seminal principles do in the production of Plants, and Flowers; each cause doing what is proper to it: The Dictates of the Spirit are contain'd in the Gospel, and the Spirit enlightneth, and teacheth by that.

And so he came to the great Doctrine of ...

Justification by **Fairth**: Here he call'd to my mind what he had related before concerning *Faith*, and the false notions

of it among the Fanites: and then faid,

Justification is either taken for the making us just, or the dealing with us as if we were such: And that Faith is taken as a single Grace, viz. The belief of the Gospel; or complexly, as it comprehends all the rest, viz. The whole body of Holiness. Having premis'd which necessary distinctions, He told me, That Faith in the single acception of it, was the great instrument of the Gospel,

to make us just; and so justified in the proper, Physical sense; But that as it comprises the the other Graces, it justifies in the forensiek, and less proper sense, viz. That God deals with the Faithful, namely those that are sincerely obedient to the Gospel, as if they had been strictly, and perfectly just; and had fulfill this Laws. By the help of which short, and plain state of the controversie, methought I saw clearly into the whole matter, and was free'd from many perplexities, and consusions in which I was wont to be involved.

And being thus inform'd of the principles of those Divines in those chief heads of Doctrine, I had a curiosity to have an account of their mind, concerning the Form of Ecclesiastical Government, about which there had been so much stir in our European parts of Christendom, and therefore intreated him to represent their opinion to me in this subject: To which he

answer'd me thus.

The Antient Form of Church Government in this Island ever fince the plantation of Christianity in it, hath been Episcopal; But of later years, it was very much hated, and opposed by the Ataxites, who set up new Modells (every sect it's own fancy) as the only divine Government, and Discipline of Christ; So that the Scriptures were rack'd, and every little word, and point forc'd, and many subtilties of interpretation suborn'd to declare for the beloved imagination; and then the whimfie was voted to be of divine right, and the only Scripture-Government; and the advancing of it, made no less then the Interest of Gods Glory, and the promoting of Christs Kingdom. On the other fide, the antient Government was decry'd as Superstitious, Church Tyranny, Humane Invention, a limb of Antichrist to be extirpated root, and branch, by a thorow, Godly Reformation: In which defign (as I told you) they succeeded to the Subversion both of the Civil, and Ecclesiastical state: But when they had destroy'd, they knew not how to build; for they could never agree upon the Platform to be erected in the room of that which they had subverted: For every Sect was for setting up it's own frame; and every one had a different Model from every other; and each was confident, that it's Form was Christs Institution, and so by no means to be receded Rr from,

from, in the least point: The effects of which were endless Animosities, Hatreds, and Struglings against each other, and the greatest rage, and violence of them altogether, against the

Church of Benfalem, and all Episcopal constitutions.

Amidst these Bandyings, some Antifanatick Divines taught. That there was no reason to think, that any particular Model was prescrib'd in Scripture, so, as to be unalterable, and universal: That it was necessary there should be a Government in the Church; That the Apostles had appointed General Officers, and General Rules, fuch as God's Glory, Edification, Decency, Order, avoidance of Offence, and the like; but that it did not appear, they had determined the particular Circumstances, and Form: That there was no express command of them; and that the plea of Apostolical example (could it be made out) would not hold for an univerful Law to the Church in all ages. except where there was some intrinsick, necessary goodness in the things practifed; or some annext Precept to inforce it: That there was neither of these in the present case; and therefore they urged, That the Form, and Circumstances of Government, was to be left to the Ruling Powers in the Church, to be order'd by them so as should seem best to suit with the General Rules, and Ends of Government.

By the means of which Principles, Foundation was lay'd for Peace, and Obedience; and that age was prepared for the reception of the old, Legal establish'd Government, when it should be restored. Concerning This those Divines taught,

That it was of all the most venerable Form, and greatly to be rever'd for its Antiquity, Universality, and the Authority it had from Apostolical Practice, and our Fundamental Laws: That on these, and other accounts, it was infinitely to be prefer'd, and chosen, before any new-sangled Model, upon the score of which declarations, and discourses, in the Ataxites times, great complaint was made by them, among the soolish Zealots of their party, that the Universities, were over-run with a Prelatical spirit, than which, nothing was more odious in those days: But the prudent men took no notice of their clamours, but went on with the design of propagating such sober Principles, as tended to the healing of the Nation. When

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the publick Government of the Church was restor'd; They most chearfully put themselves under it, and submitted to its Orders heartily, upon the belief of its being the most Primitive, Catholick, Prudent, Legal Government in the world.

Have now, said the Governour, past over the particulars. I in which you defir'd to be inform'd; much more might have been faid of them, but I know your own thoughts will improve these suggestions, which are enough to give light to the main Notions. I returned him my humble acknowlegements for the care, and pains he had taken to fatisfy, and inform me in these, and the other heads of those Mens Doctrines. To which he answer'd, That it was a great pleafure, and satisfaction to him if he had given me any content by his relation; and then will'd me that if there were ought in the Theological part, that I had any query about, I would propose it freely: For, said he, we have a little time more to spare in talking of this first General, if you have any curiofity to be inform'd further of any thing belonging to it. I anfwer'd that he added to his favours by the liberty of Questioning, he was pleafed to allow me, and that I had one thing more to defire a few words of, if he so pleas'd, which was, what Way of Preaching those Divines followed: This said He. I should have minded my felf, and am very glad you rememberme of it.

You must know then, continued He, That there was not a greater diversity in any thing in Bensalem in the Age of which I now speak, than in the Modes of Preaching; of which amongst other evils, this was one, and not the least, That the people distasted, and contemn'd all the Doctrines, and Instructions that were not deliver'd after their own salhion, though otherwise never so seasonable, and wholesome; and inordinately admiring their own men, who spoke in the Phrase, and Mode that they fancied, they vilified, and despis'd those others, that us'd another method, though it were never so solid, edifying, and useful. And indeed, things were come to that pass in Bensalem, that there was scarce any other use made of Preaching, but so pass judgments upon the Preacher, and the Sermon;

mon; which was not only undertaken by the people of Age. and Experience: or by those only of better education and more advanc'd knowledge; But every Age, and every condition, was thought fit to judge here, every Youth, and Ignorant; every Rustick, and Mechanick would pass absolute. and definitive sentence in this matter. Accordingly the most empty; and fantaftical Preachers were generally the most popular: And those that dealt most in jingles, and chiming of words, in Metaphors, and vulgar similitudes, in Fanatick Phrases, and Fanciful schemes of speech, set off by pleasing smiles, and melting Tones, by loudness and vehemency; These were sure to be the taking, precious men, though their discourses were never so trifling, and ridiculous. But the Divines, whom I describe. were no admirers of this ill-gotten, and ill-grounded Fame: They had no ambition to be cry'd up by the common Herd. nor any design to court their applauses: They car'd not for their favour, or kind thoughts further, than those afforded advantage and opportunity for the doing of them good. This they consider'd as the end of their Ministry, and this they made the Rule and Measure of their Preaching; which I shall describe to you under these following Characters.

1. It was Plain both in opposition to, First, Obscurity, and Secondly, Affectation. First, They preach'd no dark or obscure notions; For though their thoughts were conversant about the deepest Theories, both in Philosophy, and Religion, yet they knew, that such were not fit for Pulpits, or common hearers They had no design to make themselves admir'd by foaring into the Clouds: Their great aim was the edification, and infruction of those to whom they spoke; and therefore they were fo far from preaching the beights of speculation. That they usually avoided (as much as they could) all the Controversies of Religion, in which the Essentials of Faith, and Practice were not concern'd. And when either of these call'd for discourse of Doctrinal matters, their great care was to be understood. For secondly, They did not involve their discourses in needless words of Art, or subtile distinctions; but spoke in the plainest, and most intelligible Terms: and distinguish'd things in the most easie and familiar manner that the matter

of discourse would bear. They took this for an establish'd Rules. That unmonted words were never to be us'd, either in Pulpits, or elsewhere, when common ones would as fitly represent their meaning: and they always chose such, as the custom of speaking had rendred familiar in the Subjects on which they spoke, when those were proper, and expressive. And though many forts of thoughts, and Subjects cannot be made obvious to the meer vulgar; yet they endeavour'd to render fuch as were out of the common road of thinking, clear, and plain to those that are capable of the matters they were to ex-Thirdly, They did not trouble their hearers with pretended Mysteries: They led them not into the dark places of Daniel, and the Revelations: nor fed them thence with their own imaginations under pretence of secret, and bidden Truths: No, they taught them from the plain Texts, and Doctrines of the Holy Writings: and gave them the sincere milk of the Word without any mixture of elaborate fancies, or myltical vanities. Fourthly, They flighted, and avoided all canting Fanatick Phrases, which were so much the Mode of those times. For They saw, they did but please with their sound, without conveying any fense into the minds of those that were so much delighted with them. So that the pretended plain preaching of those days, was really not at all understood; nor as much as Therefore instead of such phrases, They us'd the intelligible. most proper, and natural expressions, and such as most easily opened the mind to the things they taught.

I do but flightly mention these particulars here, said the Governour, because I have spoken of them before in my larger accounts of these men: And so he went to the second thing

mentioned, viz.

(I.) The plainness of their preaching, in opposition to Affectation. Now the usual affectations of Preachers, said he, relate either to Learning, Wit, or Zeal; from all which They were very free. For first, They affected not to oftentate Learning, by high-flown expressions, or ends of Greek, and Latine: They did not stuff their Sermons with numerous, needless Quotations; or flourish them with the names of great Authors: ways to be admired by the Vulgar, and desired by

the Wife: No, their Learning was not shewn in such cheap trifles as these, but it abundantly appear'd to the intelligent. by the judgement and strength, the reason, and clearness with which they spoke. Secondly, They despis'd the small essays of appearing witty in their Sermons: They us'd no jingling of words, nor inventions of sentences, no odd fetches of observation, or niceness in labour'd periods: They affected no gayness. of metaphors, or prettiness of similitudes: no tricks to be plaid with the words of their Texts; or any other of the conceited forts of fooling: but spoke with seriousness, and gravity, as became the Oracles of God; and shew'd their wit in the smartness, and edge of the things they deliver'd, without vanity, or triffing. Thirdly, They did not put on fantastical shews, and appearances of affected zeal: They us'd no fet Tones, or clamorous noise; no violent, or Apish actions: They spoke with a well-govern'd affectionateness, and concernent; and such as shew'd they were in earnest: and very sensible of the weight of the affairs they were about: But without any thing of indecency, or extravagance.

And now, faid He, after what I have mention'd under this first Head, I may spare my pains of speaking much under the rest that follow; and therefore I shall be brief on them.

- (II.) Those Divines were methodical in their preaching: not that they were nice, in running their Texts into all the minute divisions of words; or formal in tying themselves just to one order on all Subjects: But they divided their matter into the substantial parts of Discourse; or resolved it into some main Proposition; and so treated of their subject in the method that was natural to it, and most beneficial for the people they were to instruct: They went not on in a cryptick undiscovered order on the one hand, nor did they spin out their matter into numerous, coincident particulars on the other: But made their Method very easie, and obvious, and their Heads sew, and very distinct; which is helpful both to the understandings, and memories of the hearers.
- (III.) Their preaching was *Practical*: For though they taught all the great substantial principles of Religion; yet still they directed them to *Practice*, and laid the main stress on that

that. According to the saying of our Blessed Lord, If ye know these things, blessed are ye if ye do them. They taught the true, practical Divinity, without whimsies, and Romantick strains; and laid down the Rules of Life that are practicable, and such as sort with the plain Precepts of the Gospel, and the condition, and possibilities of humane nature: They spoke here, as those that understood the passions, appetites, and ways of men; and the course that was to be taken, to set them in right order: They did not talk by roat out of Books, or Enthusiastick experiences; They did not direct by Metaphors, and Phrases, and unpracticable fancies: But laid down the true,

fober, rational, experimental method of action.

(IV.) Their way was earnest and affectionate: They were not cold, or trisling, in matters of such vast consequence: They did not invite with indifference; or reprove with softness; or direct with negligence and unconcernment: But did all these, with a zeal; and warmth sutable to such weighty occasions. But then, They endeavour'd to excite mens affections, not by their senses, and imaginations only; not, as I said before, by meer empty noise, and Tones, and Gestures, and Phrases, and passionate out-crys; but by the meight of their sense, and the reason of their persussions, endeavouring by the understandings, to gain the affections; and so to work on the mill, and resolutions. Such was Their way of Preaching, on which I might have much enlarg'd, but I give you only the brief Heads.

Here I ask'd him, what entertainment this their preaching met with in Benfalem? He answer'd, That for a long time it was but coldly receiv'd by the people, whose imaginations, and humours us'd to be fed upon Allusions, and Phrases, and Metaphors, and Opinions: And therefore, they hated sound Doctrine, and distasted the sincere Word: Their pallates were so vitiated by the fantastical sood, to which they had been us'd, that the substantial and wholesome dyet would not down with them: So that those Divines were not at all popular at first, but the People generally ran after the affected, fanciful men, who entertain'd their itching Ears with jingles, and mysteries,

and new nothings.

And after that many of These Teachers had forsaken the publick

publick places of Worship, and in opposition to the Authority of the Church, and Edicts of State, betook themselves to holes and private corners, The bewitch'd multitude followed them into those places; Their zeal, and admiration of their own Men being increased, and heightned by the prohibition, and restraint that was upon them: For they doted on the fancies They taught; and could not endure sound sense: But the fudicious of all sorts, entertain'd, and relish'd the sober, whas feeled preaching of the Anti-fanaticks; And at length also, by time, and their approbation, and example, most of the well-meaning, missed people were recover'd back to the Church of Bensalem, and brought to a relish and liking of the plain way of Instruction.

And now faid He, I have done with what concerns the Theological Genius, and Principles of the men I undertook to describe, 'Tistoo late for us at present to enter upon their way of Philosophy and Learning: of this I have given some short hints, but I intend you a larger account at our next meeting; and if you are not tyred already with my discourse, that shall be to morrow in the afternoon, which I hope I shall have at liberty: If you will come hither at that time, you will find me ready to acquaint you with what is further considerable in the Story of those Men.

I thank'd him, with a profound reverence for the fatisfaction and pleasure he had afforded me already in his Relation; and for that further entertainment he was pleas'd to design for me; saying, that I never counted time better spent than that, which I had the honour to pass in his Instructive Conversation, and on Subjects of such delight, and importance. And so I took my leave for that night, and was conducted back by the

same Messenger to my Lodgings.

Went the next day, at the appointed time, and found the Governour in the same room. After some Reflections on his past Relation, and a few common matters of Discourse (which I need not remember) He told me, He would acquaint me now with some things relating to the Opinion, and Genius of the same Men, in several sorts of Learning: of this, said He, you heard somewhat in the beginning, which will shorten this Account: I answer'd, that I did well remember what was told me of their universal way of study, and converse with the best Authors, both Antient, and Modern. I therefore shall omit further discourse of that, said He, and tell you their Opinion (as far as I apprehend it) of the several chief parts of Philosophy, and Learning. I begin with

LOGICK: As to this, They oppos'd not the usual Systems of the Schools, as they were Exercises, and Institutions for Youth: But They did not like the formal Syllogistical way among maturer Reasoners. They many of them more approv'd of the Logick of Plato, which teacheth first to explain the Terms of the Question, and then to proceed by orderly Gradations from one proposition to another, till we come to the thing we would prove. A method of Reasoning more quick, and close, and much less subject to fallacies, and wandrings, than the way of Syllogism.

And to move the propositions from whence a man would infer his conclusion, in the modest, Socratical way of Question; In my judgment, is a very good, and advantageous method. For in this, the occasions of passion which are ministred by positive affertions, are taken away, and the Arguer is ingaged no further, then he thinks fit. He may break off when he pleafeth, without prejudice to his credit, which he hath not ingag'd, by undertaking Dogmatical proof of any thing: And so disputes may be brought to a short, and fair iffue; and extravagant heats may be avoided: for the Arguer may keep himself uningaged, and so see more clearly how to apply his force, and refirain the discourse within the bounds of the subject: whereas in the politive way of disputing by Syllogism, there are these contrary disadvantages: Sf Our

Our Reasons are led a great way about; Mens minds are concern'd for the credit of their affertions, which they positively undertake to prove; Ambiguous and Equivocal Terms stealin, and infenfibly millead the Reasoners; or distinctions are applyed, which millead them more; The Disputer takes up one end, and runs away hastily in an opposition of it, perhaps without clearly understanding what it means, and without obferving how this new pursuit works him off from the main bufiness; He goes on still, and is still turn'd out of his way more. and more, by him that he opposeth: For if he seek occasion to evade the force of the Argument, he may do it well, and falve his credit to, and the deceit shall not easily be perceiv'd. In like manner the opponent for his part, may by Syllogisin draw his answerer, though a wary person, almost whether he pleaseth. and impose upon him by Terms, and fallacious Contexture of words, although he be one that understands consequence well, in plain reasoning: And so in this way, men may talk endlessly, but come to no refult; and when they are weary of rambling, they may fit down, if they please, but be it when, and where they will, they know not how they came thither, nor what is become of the Question at first debated. This is the usual issue of all Syllogistical disputes; But in the Platonical, and Socratical method, these extravagancies may easily be avoided: which therefore I think to be the better way for men, that would find truth, and inform one another: But for the Youth that would try their wits, and appear subtile in arguing, Syllogisms may be proper for their purposes.

For PHYSIOLOGY; They did not fit down in any System, or Body of Principles, as certain and established: They considered the incomprehensible wisdom that is in the works of God; the difficulties that occur in the seeming plainest things; the scantness, of our largest knowledge, and shallowness of our deepest enquiries; of which I spoke before: and therefore gave but timerous assent to any notions in Natural Philosophy: They held no infallible Theory here: Nor would they allow any speculations, or accounts of Nature to be more then Hypothesis, and probable conjecture: And these they taught were not to be rais'd from abstracted notions, and the unablished operations of the mind, but to be collected leasurely from a careful observation of particulars:

So that they thought, with much reason, that the best Foundation for Natural Philosophy would be a good History of Nature: This they faw to be very defective in their Time, and that while it remain'd in that imperfection, the knowledge of Nature, and the use of it, would be very scanty, and inconsiderable: But that from its inlargement, more, and furer Light might be expected and theuses of Life and Empire of man over the Creatures, might be greatly promoted, and advanc'd. For These ends the Foundation of Solomon's House, about that time, was lai'd; and This divers of them thought the best design that ever was for increasing Natural Knowledge, and the advantages of Humane Life, and infinitely beyond all the disputing, notional ways, from which nothing could arife, but diffute, and notion: They consider'd this method of joint endeavours, in such a royal, and noble Affembly, about the Phanomena, and effects of Nature, to be the way to make Philosophy operative, and useful: To take it off from spending it's strength in forming vain Ideas of fancy, and wrangling endlesly about Chimeras; and to make an Instrument of Action, and profitable works.

But notwithstanding this, They did not wholly slight General Hypotheses, and Philosophical conjectures: No, They enquir'd into all the considerable speculations, that are extant, both Antient, and Modern; though they addicted not themselves to any of the Sects of Philosophers: They rejected no probable Opinion with contempt; nor entertain'd any, with fondness: They doated on none, because they were Antient; nor did they contemn any, because they were new: But receiv'd the likelyhoods of Truth, and Knowledge of any date, from any hand, or

in any dreß.

Here Iask'd, whether these men were not enemies to Aristotle, and bis Philosophy? He answer'd, That They gave that respect to Aristotle, that was due to his antiquity, parts, and reputation in the World: That they read his Books, and thought as well of him, as of some others of the Philosophers: That they gladly receiv'd any of the Truths, or Probabilities, that he taught: But then, That they did not make his Authority absolute; or slavishly submit their judgments to all his Dictates; They did not reckon him infallible in Philosophy; no nor yet

free from many actual, great mistakes: They did not prefer his judgment before all the elder Philosophers, or those of his own time; Nor did they think he was without Equal, or Superiors, both in Knowledge, and Vertue: They had not that partial, unjust fondness for him, that the Moores, and Monks, and some other vain men had, to the prejudice, and disvalue of the Philosophers, that were before Him, from whom he took most of his Notions.

He said, That the Philosophy taught in some common Schools, for Aristotle's, was a depravation, and corruption of it: That it was but Monkery, and Moorish Ignorance formed into idle, and unintelligible whimsies. That the main Principles, Foundation, and Soul of that Philosophy, Their first matter, Substantial Forms, and Qualities, were meer Imaginations, that had no ground either from Sense, or Reason: That they were utterly unaccountable in themselves; and served no purpose of Knowledge or Life: But rendred all the Philosophy that was built on them fantastical, and useless.

On the other fide he faid, That the Corpuscular Philosophy was the eldest, and most accountable Doctrine: That it was as antient as Natural Philosophy it self: That it was applicable to the Phanomena of Nature, and that it was very easie, and intelligible: This Theory, added he, those Philosophers preserved much to the other of Qualities and Forms, which in comparison is novel.

They examined the Philosophy of your Gassendus, which reftor'd, and amplified the Atomical Doctrine: And enquired into the Hypotheles of that other great man of your World, Renatus Descartes; Both whose works had been brought hither, by our Missionaries. This latter they consider'd, and studied much, and in him they found a prodigious wit, and clear thoughts, and a wonderfully ingenious Fabrick of Philosophy, which they thought to be the neatest Mechanical System of things that had appear'd in the World; However, they adhered not to it, as the certain Account of Nature; nor yielded their affent as to positive, and establish'd Truth; But entertain'd what they thought probable, and freely differted in other matters. Yeaf me of them, who thought highly of his Mechanical wit, and believ'd he had carried matter and motion as far they could go; declar'd earnestly against the compleatness, and perfection

the

fection of his Hypotheses; and learnedly shew'd, That the Mechanical Principles alone would not salve the Phanomena; and that his accounts though they were pretty, and ingenious, were yet short, defective, and unsatisfying; and in some things not very agreeing, and consistent. These judg'd that nothing could be done in Physiology without admitting the Platonical Asyll Emphasimal, and Spirit of Nature; and so would have the Mechanical Principles aided by the Vital: But in these matters, others of them had different thoughts; though all agreed in the modesty, and freedom of judgment and discourse.

As to MORAL PHILOSOPHY, They did by no means approve of the Contentious, Disputing Ethicks, that turn'd that useful knowledge, into Systems of unprofitable niceties, and notions; and made it (as Cicero speaks) to be rather Ostentatio Scientie, then Lex Vita: But they founded theirs, upon the excellent knowledge of Humane Nature and Passions: Into these they inquir'd much, and observ'd the various inclinations, and workings of the Humours, and Appetites of Men; especially they studied themselves, and entred into the recesses of their own souls: Nor did they stop here, but formed their knowledge, and observations into solid Rules of Life, for the commanding of their passions, and bounding their desires, and governing themselves, by the Laws of Vertue and Prudence. Such were their Ethicks; and their Tempers, and Practices were suitable.

For though they were men of rais'd understandings, and great learning; Yet were they not, in the least, haughty, or conceited; but their behaviour was generally most sweet, and obliging: They cared for no mans wit, that wanted goodness; and despis'd no mans weakness, that had it: They hated the humour of those learned men, who were stately, and imposing; and dislik'd nothing more then Ill-nature: whatever their own was by Birth and Temper, their care was to make it sweet, by Discipline and Usage; and so, exercis'd their Moral Pinciples, and Rules upon themselves: They were no admirers of Popularity, but pitied those that were at pains for Air and noise: They followed a sober, vertuous course, without slanting shews, and pretensions; and liv'd in an innocent, even cheerfulness, without rapture, on the one hand, or dejection, on

the other: They were free in their Conversations, and not fuperstitionsly scrupulous about things that are harmless and indifferent. But, said the Governour; I consider, I need not insist thus on the description of their Moral Temper of Spirit; It may be collected in these, and many other particulars, from what hath been said before: And therefore I now pass immediately to their

METAPHYSICKS, About which, I must first tell you, That they had no opinion of those of the Peripatetick Schools, which confisted of Logical niceties, and empty notions, that sophisticated mens reasons, and inclin'd them to hover in abstracted generals, and to rest in meer Terms of Art; to the neglect of the more material ratiotinations: Such Metaphysicks were in use at that time in the Universities of Bensalem; and therefore out of respect to the Statutes of those Seats of Learning, They did not professedly endeavour to expose those studies: No. They were against rude and violent Innovations; But yet as they had opportunity, they prudently advis'd fuch Youth as they knew, to take care that they did not dwell on those Aery Notions; or reckon of them, as any part of that standing Knowledge, which they were to use, through the course of their future lives: They allowed them for exercise, but caution'd against the reception of them, as Principles of Truth, and Science.

Here I ask'd, whether Those men were against all Metaphysicks? or what fort they allowed? He made answer;

That They were not against all. But that

1. Some of them counted, The explication of General Terms, and notions of things to appertain to Metaphyficks; and this they reckon'd to be most necessary, and useful for the avoiding confusions, and mistakes in reasoning: So that they never entred into any Controversie, or Enquiry, without stripping the words, and notions, they were to treat of, from all fanta-stry, and borrowed senses, and fixing them in their natural, and genuine acception: Knowing, that most disputes and errours in reasoning arise from mistakes of simple Terms.

2. But then others of Them, who as highly esteem'd of this course, judg'd it to belong to Logick, and that it was not to be brought under this science, the only object of which, They

made

made the Spiritual, and Immaterial World: And in this fort of Metaphylicks, the Science of Spirits, they were not all of one Opinion; For some were for the Doctrine of Plato, making spirits, extended, penetrable, indiscerpible, self-motive substances: Whereas others thought with Descartes, that extention, motion, and the like Attributes, belong'd only to Bodies, and had nothing to do with Spirits, which could be defin'd by nothing, but Thinking, and the Modes of it. But this difference in Opinion produc'd no rudeness, or heats of opposition, only it gave exercise some times, to their wits, in their private Philosophical entertainments.

As for the Doctrine of the common Schools of Tota in Toto—Both sides esteem'd it contradictions, and vain: And knew, that this was one great occasion of the Sadducism, and disbelief of Spiritual Beings, which was so much the Mode of that age.

Isaid, That I had heard something of both these Doctrines; And that each of them seem'd to me, to contain opinions that were very strange; adding, that I desir'd to know, whether those Gentlemen entertain'd the conceits, that the old Platonists, and our Cartesians did, in their Hypotheses? He ask'd me what notions I meant; I answer'd, That the Platonists held, There was an Anima Mundi; and the Praexistence of particular Souls, things seemingly very uncouth, and absurd. And the Cartesians, on the other side, taught, That all things were Mechanical, but Humane thoughts, and operations; and that the Beasts were but meer Automata, and insensible machins; which, said I, seem very odd, and ridiculous fancies.

As to these Opinions replyed he, They had different thoughts, as other Philosophers have; Some of them supposing that the Platonical Opinions are very sit to be admitted, to give affishance to the Mechanical Principles; which they think very desective of themselves. And Others judging, That the Cartesian Hypotheses are probable, and Mechanism sufficient to account for the Phanomena; and that there is no need of introducing so hopeless, and obscure a Principle, as the Soul of the World.

In the Matters, and Mysteries of Providence, They also take several ways of Opinion: But then, the differences to either judgment, do not condemn the opposite, as ridiculous, and

absurd:

absurd: Knowing, That there is a great appearance of truth in the contrary Doctrine; and no certainty in that, which they

approve most.

As to the Opinion of Praexistence of souls: It hath said He, been the Doctrine of many of the wisest men of eldest times, both Gentiles, Jews, and Christians, and the almost general belief of the old Eastern World: It contains no opposition to any Article of Faith, and some believe, It will give a very plausible, and sair solution of the main, and most difficult things in Providence: On which accounts it should not, I think, be rashly, condemn'd as absurd; but may very well deserve to be heard, and is very worthy to be examin'd: Though, added He, I affirm nothing positively of it; And I suppose many of the perfons I describe, were disposed to like thoughts with these, in reference to that Hypothesis.

I pray'd him to acquaint me with their Opinion of the MATHEMATICKS? He Answered, That They were great valuers of those Sciences; which they accounted excellent preparatives, and helps to all sorts of Knowledge, and very serviceable particularly in this, That they us'd the mind to a close way of reasoning, and were a good Antidote against the confus'd, and mandring humour of Disputers: For which reason, Some of them thought, it would be very well, If they were us'd as the first Institutions of the Academick Youth; judging, that these Sciences would exercise the wit, as much, as the usual Logicks, at least; and beget a much better habit in the mind, then

those contentions studies.

Besides This, said He, I cannot at present think of any thing more, considerable, concerning their inclinations, in meer Humane Knowledge: But as to their way of Learning, as Divines, something may be added,

And with Relation to this I may fay,

r. That they are not much taken with the School-men, but rather think, That those subtile, and Angelical Doctors have done Religion no small difference, by the numerous disputes, niceties, and distinctions they have rais'd, about things, otherwise plain enough: By which, The natural, and genuine conceptions of mens minds are perverted, and the clear light of Reason,

Reason, and Truth intercepted, and obscur'd: And they judg'd, There was less cause in the latter ages to reckon of School-Divinity, since the Peripatetick Philosophy, on which it was grounded, grew every where into discredit: So that they thought it not safe, to have Religion concern'd, in that, which did not truly help it; and which was not now able to help it self.

2. They did not admire many of the Commentators, and Expositors of the Scripture: For though they praised those Industrious Men for their Zeal, and Devetion to the boly Writings: Yet they did not think much due to divers of their performances. For a confidering Man could not but observe, how they kept voluminous stir about the plain Places, which they never left. till they had made Obscure; while they let the difficult ones pass without notice. Besides which, the manifold Impertinencies, Phancies, Disputes, Contradictions to one another, and the Scriptures, which were observable among those Writers, rendred divers of them of mean account in the Judgment of those Men. However they had a just esteem of many of the Critical Interpretures, and particularly of those famous Lights of your end the World, well known to us also, Grotius, and Hammondus, whose learned works and expositions they beheld with great respect, and veneration.

(3.) As for the ANTIENT FATHERS; They valued those greatly of the first 300, yea 500 years, who lived before Christianity was so much mingled with Opinions, and corrupted by disputes; and the various devices of Men: Their works they reverenced, because there was much holiness, in those venerable persons, and much simplicity in their writings, and among others, there are two particular reasons,

why they had those fages in so much esteem.

(1.) Because the Controversies they handle, are mostly such, as Concern the main things of Religion, in opposition to the fews, Heathens, and some gross Hereticks, who undermined the Foundations of Faith, and Life: These were undertakings worthy the zeal, and pains of those holy Ancients; who did not multiply unnecessary quarrels, and occasions of disputes or make speculative opinions Articles of Faith, and fundamentals of Religion, and presently denounce thick Anathema's against all, that differed from them in lesser matters; But they

fluck firmly to the few, plain things, and placed their Religion principally in a boly Life, and lived in Charity, and Love, and frequent communion: Those days, and those Men the Antifunites celebrated much, and prayed, and endeavour'd for the Restauration of Christianity to that Primitive Temper:

(2.) They reverenc'd those Fathers, because living nearer the times of the Apostles, they had more advantages to know their Doctrines, and Government, and Usages, than the ages at a greater remove have: on which Accounts, They attend more to their practises and opinions, then to those of succeeding times, when pride, ambition, covetousness, and disputes had lead Men aside into the various ways of phancy, and faction: These then they accounted excellent mitnesses of Christianity, and our best Interpreters of it's Dectrines, and Constitutions; though they did not make them Judges in affairs of Faith, and Religion; or reckon all to be infallible, that they did, or said. Thus were they disposed towards the first Fathers.

For Those of the following ages They esteem'd their piety, and zeal; and praised God for the good they did in their Generations; and gave all due acknowledgments to their pious endeavours; and were ready to imbrace their instructions in the ways of Godliness, and Vertue; and willing to receive the evidence of any truth from them: But They did not equal them in their estimation with the Elder Fathers, nor superstitionally doat on all their sayings; nor take them for the best

Guides in all the Doctrines of Religion.

For those Fathers lived in the disputing ages, when pride, and interest and prevailing faction had espoused opinions, as effentials of Faith, and made Men quarrel, and divide, and break the peace of the Church, of the World, for Trisles; They much differ'd from one another; and some of them, at times, from themselves; and many of them, in some things, from Scripture, and Reason, and more primitive Antiquity: They disputed often with much eagerness; and were very angry with each other about things of no great moment; and vented unseemly passions, and were too often very impatient of Contradiction, and different judgment. They, some of them spoke hastily, and determined too soon in a heat, against one kind of opposites; and then, forgot at another time, and affirm'd

affirm'd the quite contrary, against an other fort of Adversaries: They made too much of their opinions, and were many times. too severe to harmless dissenters. These, and divers more such, were the weaknesses of many, of those Reverend Men: which I do not mention, said He, to detract from their worth in other things, or to lessen their just honour and valuation: but to shew you some of the things, which, 'tis like, were the reasons, why those Divines did not esteem of the latter, as

they did of the most ancient Fathers.

These, and such like, I say, I judg might be the reasons: But They themselves were very cautious in saying any thing that might look like detractions, or difesteem of those venerable Persons: They contented themselves to omit poring on fuch of them, as They thought there might be less cause to admire, or lefs need to study; without discovering their nakedness, and imperfections; or discouraging others from following their inclinations to converse with them. Yea, they neglected not to read them themselves, as they had time, and occasion: But then, they read them not with design to gather fine sentences to adorn their discourses, nor to gain Authorities in speculative matters, to confirm their opinions: But to improve their reasons, to get direction from their pions councels. and to inform themselves of the Genius, Principles, and Customes of the Times, in which they successively lived: That they might not be imposed on by the pretenders to Antiquity, who endeavour'd to gain reverence to their Innovations, by pretence of ancient usage: And this is enough of their Inclinations towards the Fathers.

I have now, faid He, but a word to speak more, under

this Head, and that shall be briefly;

(4.) About their opinion of the Rabinical Learning: Among the Authors of this fort, diverse of them were very converfant : not out of any great esteem of the Men, or their Learning; but from a delire to acquaint themselves by Them, with the Doctrines, Terms of speech, and customes of the Jews, in order to their better understanding of the Scriptures, and the defence of Christianity, against those enemies of the Cross. On these accounts, they judg'd the reading hose Writers, notwithstanding the trash, and vanity, with which their Books

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were loaded, to be very useful for a Divine, and like to be of more behoof to him, than all the tedious volumes of the Schoolmen: And some thought, it would not be amis, if the Rabbins succeeded in those places, which those other Ductors,

were leaving vacant.

And now, said He, I have also given you a Taste of the Genius, and Humour of those Divines in some chief parts of Learning: And though I have mentioned only some particular sorts, yet I do not thereby exclude them from their share in the Languages, History, and other kinds of knowledg; which I have omitted in this account, only, because their sence of them, for the most part, was common with the judgment, and

opinion of other learned Men.

I have represented to you their Genius and endeavours, not with design (as I intimated before) to exalt, and magnisse them above the other Divines of Bensalem, but to shew how the Providence of God over-rul'd those evil times, in which those Men were bred, and to raise a good and generous Spirit amid the extravagances of an unhappy age: and I have thus particularly described their Principles, and Practices, not to exclude other worthy, and Reverend Men (with which, thanks be to God, this Church abounds) from the share of acknowments that are due to their pious, and excellent Labours, but because those Persons are better known to me, than any others of our Clergy.

At this Period of his discourse, a Servant came in, and with low reverence, acquainted the Governor that some Persons of quality were come to speak with him. Upon which, he rising up, told me, He was forry for this interruption, but hoped ere long, to have the freedom of another opportunity of

Conversing with me.

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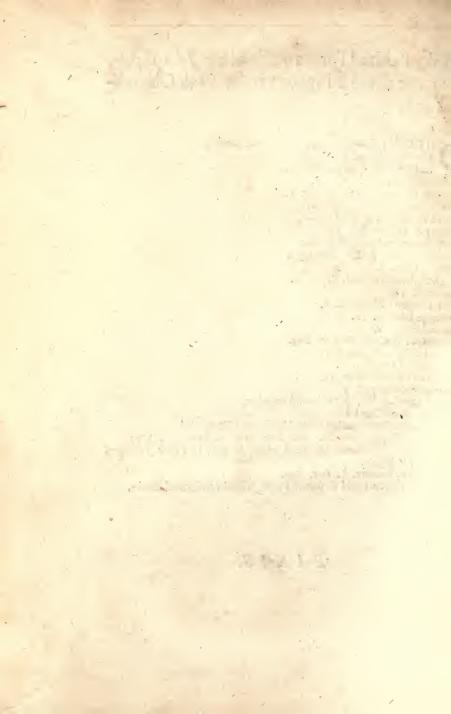
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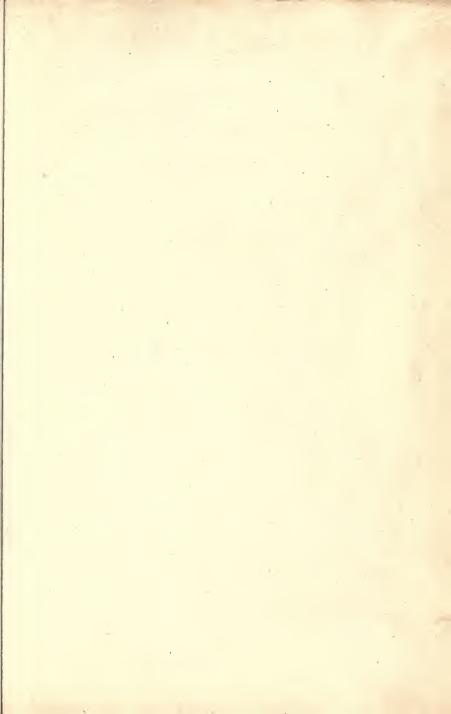
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