An Accompt of some Books.

I. Trastatus de NATURA SUBSTANTIA ENERGETICA, seu de VITA NATURA, ejusq; Tribus primis Facultatibus; Perceptiva, Appetitiva, Motiva, &c. Auth. Franc. Glissonio, Med. D, & P. & Coll. Med. Lond. Socio, nec non Societatis Regalis Collegâ. Londini. A. 1672. in 4°.

He famous Author of this Philosophical Treatise endeavors to make it out, that matter is the Prime and Radical subject of Life; or, that Lise is the inmost essence of matter, and inseparable from the same: And, because the very Essence of matter is subject to various Modifications, that thence its life also is capable of being variously modified, so as to be different in Plants and Animals; being in all their kinds varied by a strange diversity of Structure and Organization.

This Life our Author esteems to be the very Energetical nature of a substance, whereby it is sitted for Operation, that is, made a Principle of Perception, Appetition and Motion; not producible in his opinion by any external power, motion, texture, sigure, organization, proportion, or connexion of parts,

but by the sole First Cause of all things.

The same Life, as 'tis essential to matter, is here distinguish's from the Senses; which to our Author are not the very sirst and simple perception of Nature, but some Organical Modifications thereof; for a much as, in his opinion, if there were no Natural perception, no modification or organization of matter would be able to change it into Animal or Sensitive; but a Natural one being given, this, slowing immediately from the substantial nature of the matter, will be subject to as many kinds of Modifications, as the matter it self is capable of. And it seems, that the main scope of this book was, to investigate those various Modifications of life; though the Author ingeniously confesset, to have met with such difficulties in this argument, that as yet he hath not so much as gone through all the variations of Inanimat Substances; much less through those very subtile Formations of Plants and Animals.

If it be asked, How this Natural Perception becomes Senfitive or Animal; the Doctor answers, That disposed matter, finding it self capable, so far to raise its perceptions, as to redouble it, whereby it may be enabled to judge of its own acts and to behold them with delight, falls upon organizing,

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and adapts for every Sense as 'twere a double Organ, an internal and external; and the same matter perceiving withal, that 'tis needless, there should be an internal one, appropriate for every external, it forms one only internal, Common to all the external, and by proper nerves connects each external to it. And this to him constitutes Sensation, which he faith is not performed without redoubling the act of Perception; since, if a Nerve, by whose means Perception is redoubled, be any way intercepted, as in a Gutta serena, or in a Paralitick Member, there is no Sensation. So that, according to our Author, Sensation is Perception enobled and exalted, able to judge of its object, to reflect upon it with complacency, to suspend its action, to avert it self from one object to another; whence Brutes themselves are by him observed to be in some measure capable of Discipline, and of reward and punishment.

From all which it appears, that here is afferted such a Natural Perception, as is anterior to, more general, and more simple than that of senses in which perception, accompanied with appetition and motion, our Author makes Original Life to consist, which to him is nothing else but the Energelical nature of any being substituting by it self, since he understands not, that so noble a being as that is which subsists by it self, should be use-

less, and fit for no operation.

If any do object, that these general notions are too soon brought upon the Stage, and that Particular Forms are to be found out first, and thence we are to rise to the Universal, forasmuch as there is nothing in the Understanding which has not been first in the Sense; our Author thinks this ratiocination to be grounded upon a salse supposition, as if the particular reasons of things did incurr into our senses before the universal.

There are too many things in this Treatife for such a Breviat as this must be, to take notice of them all. One particular there is, that seems very paradoxical; which I shall but touch, and then conclude, it is, That this Author judgeth it to be more Philosophical, to hold a Penetration of Substances than a Vacuum; and that a Motion not being to be denied, and consequently either a Vacuum, or such a Penetration to be afferted, the former of these being by him, as he thinks, disproved, the latter (Peznetration) must take place.

II. Jeremiæ Horroccii Angli Opera Posthuma: un à cum Guil. Crabtræi Observationibus Calestibus; nec non Joh. Flamstedii de Temporis Æquatione Diatriba, Numerisq; Lunaribus ad novum LUNÆ Systema Horroccii. Londini, impensis Joh. Martyn,

R. Societatis Typographi, A. 1672. in 4°.

His Horrox is the same with him, that is the Author of that excellent Tract, called Venus in Sole visa, publish't by the samous Johannes Hevelius together with his Mercurius in Sole visus: who is the had not been snatch't away by an untimely death in the slower of his age, would certainly, by his industry and exactness, which did accompany his great affection to Astronomy, have very considerably advanced that Science. Now we have only left us these imperfect Papers, digested, not without great care and labour, by that Learned Mathematician Dr. John Wallis: Wherein does occurr,

First, the Keplerian Astronomy, afferted and promoted; which this Author undertook, after he had spent much time, and taken great pains in acquainting himself with that of Lanfbergius, which he at first embraced with so much eagerness and addition, that it was difficult to divorce him from it; till at length, by the advertisements of William Crabtree, a sagacious and diligent Astronomer of that time, he found, that neither the Hypotheses of Lansbergius were consistent among themselves, nor his Tables agreed with Observations exactly made, nor the Precepts of them were well demonstrated or could be; whatever that man boafted of the wonderfull agreement of his Tables with the Observations of former times: All which errors having been found at last by our Author himself, and withall the writings of Kepler, and the Rudolphin Tables by him search't into, he saw cause far to prefer them to the Lansbergian, because grounded upon Hypotheses consonant to Nature, and well agreeing with the Heavens: though he found cause by his accurate Observations to amend even these Tables; yet without a necessity of changing the Hypothesis. In which work when he was well engaged, he was cut off by death very young, in the 23th year of his age. His first piece then, were his Difputations against the Astronomy of Lansbergius, in which he clearly demonstrates, that the Hypotheses of that Author do neither agree with the Heavens nor among themselves. Which arguagem he carried on so far, that having finish't the four first DispuDisputations (as they are here to be sound) he had begun a few sheets of the siste, which was about the Diagram of Hipparchus, from which some have pretended exactly to demonstrate the Distance of the Sun. After which sollow two Disputations more; the one, of the Celestial bodies and their Motion; the other, his Answer to the Cavils of Hortensius against Tycho. So much of the First part of this Volume.

The fecond contains a good number of Extracts out of this Authors Letters to his intimate friend and industrious companion in the Study of Astronomy, William Crabtree. In which occurr many good Celestial Observations, interlaced with divers notable discourses concerning the Method of his studies.

The third, is a Catalogue of Astronomical Observations, as they were made by our Author, without allowance for the Excentricity of the Eye; which he afterwards castigated by a correction fairly written with his own hand.

The fourth, is his New Theory of the Moon, together with

the Lunar Numbers of Mr. Flamstead upon it.

To these are annexed, first the Celestial Observations of William Crabtree, concerning Saturn, Jupiter, Mars and Venus; and then, Mr. Flamsteeds Differentiation of the Inequality of Solar days; wherein are demonstrated the Prosthaphareses of the time, necessary to make an Equation, and proceeding from the Unequal motion of the Earth from the Aphelion to the Perihelion, and the Inclination from the Equinoxes to the Solstices, and vice versa.

III. Marcelli Malpighii Phil. & Medici Bononiensis Dissertatio Epistolica de Formatione Pulli in Ovo: Londini apud Joh. Martyn Soc. Reg. Typographum, ad insigne Campanæ in Cæmeterio

S. Pault, 1672. in 4°.

His excellent Philosopher and Accurate Anatomist, a very Industrious and useful Member of the R. Society, having in a Manuscript presented that Illustrious body with his Observations upon the Formation of a Chick in an Egg as well before as after Incubation; and that Company having esteemed them very worthy the Press, as well to do the Author right, as to give occasion to others to inquire further into a matter so conducive for finding out the nature of Generation: We shall here give some accompt of this well-consider'd discourses after we have intimated, that an English Physitian, a worthy Member

Member also of the faid Society, (Dr. William Croon,) hath likewife, by a curious examination of Eggs not yet incubated, very happily found, in conformity to the discovery of Signor Malpighi, the Rudiments of a Chick actually existent in the Egg even before incubation: Of which he produced a written discourse before the said Society March 14. 1671; which he affirmed to have been written a good while before, and which was read in part March 28. 1672. at the publick Meeting of the faid Society: who do hope, that the faid Doctor will make no difficulty, for confirmation and further excitement, to communicate also to the publick his learned Observations upon this subject. Which being thus premis'd, we shall now proceed briefly to take notice, that this Exercitation of Signor Malpighi, which came to the R. Society, Feb. 22. 1621, contains an accompt of his having, by carefull and diligent Observations, discover'd, that in fecond Eggs, as well before as after incubation, the first Rudiments and Lines of the principal parts of the Chick are contained in the Eggs; whereas in Subventaneous or Adle Eggs, instead of such a formation, there is found nothing but an un-form'd globous ash-coloured body, like a mola. Of these prima stamina or beginnings, this Author hath traced the progress, by observing their changes, after incubation, every fix hours, for the two first days; and, after that, every 12 or 24. or 48 hours. In the doing of which, he hath observed many very curious and remarkable particulars, especially about the Priority of the Motion of the Heart before the production of true blood, though that liquor, before it becomes red, be, according to him, before the motion of the heart; as also about the said liquor first emerging, viz. whether it be a simple colliquamentum, or aliquor vitalis, or a sanguis incheatus: concerning which he afferts, that the Carina, and the beginnings of the head, brain, and Spinal Marrow, do manifestly appear before the Collection of that Liquor, and its motion, and change into the nature of Blood: For which, and many other confiderable particulars, fince they cannot be treated in such an abstract as this without prejudicing the whole, we are obliged to remit the Read rio the intire discourse it self.

IV. DeMENTE HUMANA Libri quatuer &c. Auth. J. B. du Hamel P. S. L. Parissis A. 1672. in 12.

He Learned Author of this Book treats in it of the Nature, Powers, Functions, and Immortality of the foul; delivering with a folid Logick, illustrated by various and instructive experiments. This he doth in four parts;

In the first he inquireth into the nature, origine and progress of knowledge in general, and of simple Perception in particular; observing the chief defects of perceptions, together with their remedies, Attention, and Consideration, much helped by the study of the Ma-

thematicks, and by Recess, &c.

In the second he treats, after the same method, of the Judgment of the Mind, the height and perfection of humane knowledge. he discourses largely of the Criterium and Mark of Truth, consisting principally in the clearness and distinctness of Perception, as that, whereby the mind knows the congruity of its knowledge with the thing known. Here he taketh occasion to examine Pyrrhonisme or Seepticisme, professed by a Sect of men that speak otherwise than they think. Which done, he endeavours to shew not only, whence the Light and Evidence of Principles flows, namely from Eternal and Immutable Reasons and Idea's, forming and directing our knowledge, and begetting a certain and firm judgment in us; but also, how we shall come to see those Eternal reasons or that Intrinsick Light of Truth. To all which he annexeth those Propositions, that are, in his judgment, to be esteemed for Principles and Axioms so evident, that their Truth shineth forth by themselves, and needs no demonstration: Concluding this part with a confiderable Enumeration both of the principal Causes of Errors, (which may be resolved into that main one, the Confusion of Perceptions, breeding either a halty and un-advised, or a false judgment,) and of the Remedies of the same.

In the Third, he treats of Argumentation and its nature and origine; of Syllogismes and Paralogismes; and especially of the true way of Demonstrating; which latter he so performs, that little seems to be by him omitted of what hath been written by others that is considerable. And least a naked and jejune delivery of Rules should prove tedious to the Reader, he hath made them grateful with abundance of uncommon and pleasing examples; and laboured, not only in a Logical but Physiological way to explain the cause, nature, windings and errors of Ratiocination. Bendes, his purpose being to deliver a Logick, sutable not only to the old Scholastick, but also to the Modern and Experimental Philosophy; he discourseth copiously and instructively of Induction; shewing from the Excellent Lord of Vernlam, and the Illustrious Robert Boyle, how Natural Philosophy and all useful Arts may be improved and advanced by the hitherto too

much neglected induction. Where he takes occasion to speak of and commend that way of sinding out the Efficient causes of things, call'd by the newly mention'd Lord Instantia Crucia, because, like a Cross erected where more ways than one do meet, it shews which of them you are to take. Which, among others, he illustrates by the example concerning the Question of the Canse of Gravity. viz. Whether it be a Quality inherent in bodies, or the Magnetical power of the Earth, or the Circum-ambient Air or Ether? Alledging for this purpose an Experiment, seeming to him to be such a determining instance as hath been spoken of; made by Monsieur Hugens before the Royal Academy at Paris, and related at large by Mons. Robault in his Traite de Physique, printed at Paris A. 1671. part 2. ch. 28. p. 122. to which we refer the Reader; hastning to

The Fourth and last part of this Book, which considers the Powers, Nature, and Immortality of the Rational Soul, and is sollicitously employ'd in solving many difficulties occurring about this matter: Which being a subject not so proper to the design of these Tracts, we

shall here forbear to enlarge upon.

V. A Letter of Francesco Redi concerning some Objections made upon his Observations about Pipers; together with a Reply to that Letter by Moyse Charas: Now both Printed in English, for John Martyn. Printer to the R. Society, at the Bell in St. Pauls Church yard, 1672. in 80; and formerly described in these Tracts, viz. Numb. 66. p. 2036. and Numb. 83. p. 4073.

VI. De Gemmarum Origine & Viribus Exercitatio: Auth. Roberto Boyle, Nobili Anglo. This Tract was also formerly, when it first came abroad in English, described, viz. in Numb. 84. p. 4095 and is now mention'd again, only to give notice to Forrainers, that 'tis printed in Latin for the same Bookseller, for whom was printed the English Edition.

Errata in this Tract.

Pag. 5053. 1. 19. r. in its pristine. p. 5055. 1. 26. r. vebile.

LONDON,

Printed for John Martyn, Printer to the Reyal Society, 1672.