

Philosophical Transactions

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Mettal, and presently glides it along with it self to the Springs orifice, and from the moment of the Sulphur and Acide Sale's meeting and contact begins a mutual action and reaction upon one another which never ceateth, till both are imperceptibly spent, and blended into a new Body, which then the vater lets fall, as a we call an Earth, Ochre, or Sediment: After the production of which Ochre, the Medicinal vertues of the immature Sulphur is lockt up into the inseparable embraces of the A ide Salt, and so is lost, or at least disappears. But this musual action and reaction may last, till the Waters issue out of the Earth, and for some small time longer, and so long their Medical vertues are to be imparted, and no longer.

This, Sir, is the Hypothesis of Tachenius (if I rightly apprehend him) which I send, not to have it Justle out the more received one, or any other that may be proposed; but that it may have its Tryall, and accordingly may live or dye. I could alledge more in its behalf, especially in the particular of such a Body, as we commonly call an Ochre; resulting from divers Experiments of Vitriol: but I have trespassed too much already to hope for pardon from any, but &c.

An Accompt of two Books

I. GUAGING EPITOMISED, by MICHAEL DARY. London, Printed by W. Godbid 1669. upon one folio page.

Table of Squares and Cubes is of general use, but more particularly in Guaging, for taking away Proportional work in computing the Contents of Brewers Tuns from inch to inch, or by asgreat portions as you please; or for making the Tubles of Gailon-measure for M. Oughtreds Guage-Rod: Yea each kind of Table doth much expedite the Guaging of Caske, as may be seen in this Printed Sheet of Mr. Dary, wherein he supposeth, that a Beer or Ale-G llon contains (according to the late Esta lishment by Law) 282. Cubical inches; a Wine-Gillon, according to custom and Experiment, 281. Cubical Inches: And he takes an Example (of a Ganary P.p.) whose di-

ameter at the Boung is {32 inches, and Length 44 inches.

And if you suppose the Heads of such a Cask to be two Plains erect to the Axis, and alike remote from the Center, cutting off both ends of the figure produced, then, if the middle frufum, so intercepted, be computed as

The Solid Zone of Sphæroid Sphæroid Parabolical Spindle.

The Spindle Cones. Of the fame rivor Parabolical base and rivor Conoids height

the Method of Calculation being very easy by either sort of Tables, and of great affinity in all these figures. And whereas the Learned have commonly supposed, Cask to be the midle frusta of Spheroids, and given Rules accordingly for Gauging them, those suppositions, as Vintners and others upon experience affert, are found too much to enlarge the Capacity, so that a Canary Pipe, that is reputed to hold about 126. gallons, upon Experiment hath been found to contain but 116. gallons: And to determine, what figure is most proper to be admitted, cught

to be built upon such an Experiment as this;

Conceive a Caske to lye upon an Horizontal Plain with its Axis paralel thereto; and Perpendiculars on the outside of the smooth boards of the Cask to fall, from the Head, Boung, and some intermediate point between, upon the Plain or Floore; and in like manner the axis to be designed: Then find out such a curved line of some property, that may pass thorough the said Points, which conceive to have a rotation about the Axisline, the round solid so made may be taken to represent the Cask; and in the Writings of Geometers divers Curves are to be found, that are capable of passing through such Points and their round solids measured. But if the Reader think this too nice and troublesome, and that the Spharoid way is too great, and the Parabolick spindle too little, then the Author gives scope enough between; showing how to contrive such Rules, as shall best agree with Experience.

II. HISTOIRE NATURBLLEDES ANIMAUX PLANTES ET MINERAUX, qui entrent dans la Composition de la THERIA QUE D'ANDROMA-CHUS; par M. Charas In 12. A Paris.

As there are above 60 forts of different druggs, which are ingredients of this no less difficult than famous and usefull Medicine, which was invented by Andromachus, Physitian to Nero, and as those drugs are subject to be sophisticated, and require different preparations, so there are sew men, that are sufficiently skill'd to chuse aright all those ingredients, or dextrous and patient enough to prepare them well. The Author of this Book treats of this celebrated medicament, and not only teacheth the way of composing it, but intersperseth many not in considerable remarkes touching the nature and vertues of all the Druggs, which compose it.

He is of opinion, that commonly there are committed many faults in preparing the Ingredients, of which the Theriack is made up. E. g. When the Vipers are prepared, the custom is to whip them; thereby to make all the venom go to the head, which is cut off when they are sufficiently enraged. They also boile the slesh, thereby to draw forth what venemousness may yet rest therein, and their bones are cast away as useless. Whereas he saith, that it being by Experience evident, that all the venom of the Viper is in his Teeth and Jaws, that whipping is not only to no purpose, but also dangerous, in regard that the Spirits being chafed and irritated may be get venom in the body, where was none. He afferts also, that the water, in which the viper-slesh is boyled, carryes away all the vertue; and that the bones that are thrown away are no less useful, than the slesh itself.

He takes further notice, that Opium hath not those ill qualities, which many afcribe to it, who teach, that it sufficateth the natural heat, and that there need no more than 3. graines to dispatch the lustiest man; whereas he assures, that himself hath taken 6 graines of it without saving been more stupisfied by it, than he used to be; and that instead of being debilitated, he hath found himself strengthned by it. He adds, that he knows a man of a constitution delicate enough, who harh taken of it to 30. grains, and yet not found any troublesome accident upon it; on the contrary that the Patient hash found himself so well after it, that he continued to take the same dose twice or thrice a week.

He observes also, that whereas it hath been disputed, what might cause the difference of Colour in the White and Black Pepper, some believing that Pepper gathered before it was ripe, looked white, but became black in ripening; others pretending, that as the same Vine-stocks, which produce white grapes, do not bear black ones, so they are different plants, that bear Pepper of different colour; our Author affirms, that this diversity of Colours proceeds thence, that the black Pepper is covered by its skin, which the white is bared of &co.

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33. r. botles well sealed up.

Printed by T. N. for John Martyn Printer to the Royal Society, and are to be fold at the Bell a little without Temple-Bar, 1669.