

III. GUAGING PROMOTED, *Being an Appendix to Stereomatical Propositions, formerly published by Rob. Anderson. Printed for Joh. Coniers 1669. in Octavo.*

IN this small Tract the Author reduceth his former Doctrine of *Gauging* to farther Practice, and illustrateth the same by Examples.

And first he supposeth the *Axis* of a *Pyramid, Cone, Sphere, Parabolical, and Hyperbolical Conoid*, and of a Figure of different *Bases*, which he calls a *Frustrum* of a *Prisme*, which if round, may resemble a Drinking Cup like an Horn, having its top squeezed into an *Elliprick* form, and the bottom remaining either a Circle, or be likewise compress'd; the said *Axis* to be divided into equal Segments, and Plains passing through those Segments erect to the *Axis*; to divide the above-mention'd Solids into divers Portions or Rings: and upon these Foundations, *viz.* That in the *Parabolical Conoid* the second differences of the Solid Contents of the whole Figures so divided are equal; but in the rest of these Solids their third Differences are equal: he hath suted his Examples to the *Axis* cut by the said Plains at 3 Inches distance from each other, shewing first the nature of the differences in hand, and then some easie wayes to attain a first, second, and third difference; and how out of them to compute the severall Capacities sought by Additions of Differences plac'd in severall Columns. Lastly, He gives directions for the more easie Calculation of the second Segments of the *Sphere* and *Spheroid*.

But we must not omit to take notice, that this Author, speaking pag. 23. of such *Elliptick Solids*, whose *Bases* are unlike, asserts, That every such *Elliptick Solid* is equal to the *Frustrum* or *Truncus* of an *Hyperbolick Conoid*, the *Circular Bases* whereof are equal to the *Elliptick Bases* of the Solid propos'd; and the Height of the one *Frustrum* equal to the Height of the other: the Invention and Demonstration whereof argues good Knowledge in Geometry.

ERRAT. in N^o. 46.

P. 928. l. 1. r. punctum D in B, ib. l. 28. r. fortissime omnium aget.

L O N D O N,

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