

*COMETIS scripsit ediditque, scilicet, Cassini Tabulas (refractionum) & rationibus & Experimentis esse conformes.*

But *Ricciolus*, in a late treatise *Astronomia reformatæ*, hath raised an Expectation of his new Tables of Refraction, and questions those Tables of *Cassinus*: Who, in this Letter, answereth his objections, and shews, how, by observations in *Heliometro*, we may try whose Tables are best.

The *second* Letter is in *Italian*, to *Carlo Rinaldini* Professor of Mathematicks in the University of *Padua*, dated *August. 7. 1666.*

In it, He shews some defect in the ways of making Experiments of Refraction, prescribed by *Vitello*, *Des-Cartes*, *Riccioli* and *Manzini*. And then he describes an Instrument of his own invention for that purpose. &c.

The *third* Letter is in *Italian* also, but without date: concerning a book of *Dr. Mengoli*; wherein is a Table of Refractions for every degree of altitude. But *Cassinus* shews, that Table of *Mengoli* to be false; as being easily refuted by Experience, and grounded upon a wrong foundation. Most writers of Dioptricks since *Des Cartes* do agree with him, in acknowledging a constant Ratio in the Sines of the Angles considered in Refraction. But this Doctor *Mengoli*, mistaking those Angles, hath cast away a great deal of labour in calculating so many Refractions, and so making a Table full of false numbers. But *Cassinus* hopeth, that *Signor Mengoli* will review his Principles, and put true ones in their room, that so beginning anew he may reform the Conclusions, which he intended to demonstrate.

IV. *Dr. Richard Sharrock's History of the Propagation and Improvement of VEGETABLES; by the Concurrence of Art and Nature. The 2d Edition much enlarged. Oxford, 1672. in 8º.*

THIS Treatise sheweth the several ways for the Propagation of Plants usually cultivated in *England*, as they are increased by Seed, Off-sets, Suckers, Troncheons, Cutting, Slips, Laying, Circumposition: The several ways of Graftings and Inoculations; as likewise the Methods for improvement and best culture of Field, Orchard and Garden-plants; the means used for remedy of Annoyances incident to them; together with the Effect of Nature, and her manner of working upon the several endeavors and operations of the Artist. Written according to Observations made from Experience and Practice. Amongst the many considerables in it, there is an Examination of *St. Ken. Digby's* reports, and other stories of great fame.

*Errata in Numb. 83. p. 406. l. 16, and l. 28. r. refraction for reflexion p. 407. l. 26. and l. 33. r. useful for ferris.*

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