JOHN TWYSDEN, THE SEMICIRCLE ON A SECTOR

London 1667

፞ቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑቑ THE SEMICIRCLE ON A SECTOR:

In two Books.

CONTAINING

The description of a general and portable Instrument; whereby most Problems (reducible to Instrumental Practice) in Mitronomy, Trigonometry, Arithmetick, Astronomy, Trigonometry, Arithmetick, Geometry, Geography, Topography, Navigation, Dyalling, &c. are speedily and exactly refolved.

By 7. T.

LONDON

Printed for William Tompson, Bookseller at Harborough in Leicestershire. 1667.

ի անձեն անանան անան

"THE SEMICIRCLE ON A SECTOR" is a book in two sections, with Section 2 on Dialling. It contains:

> THE SEMICIRCLEON A SECTOR

> > LIB. I.

ΣΚΙΟΓΡΑΦΙΑ.

OR.

The Art of Dyalling for any plain Superfices.

LIB. II.

CHAP. I.

The distinction of Plains, with Rules for knowing of them.

CHAP. II.

The affections of all sorts of Plains.

Sect. 1.

The affections of an horizontal Plain.

Sect. 2.

The affections of erect, direct South and North Plains.

Sect. 3.

The affections of erect, direct East and West Plains.

Sect. 4.

The affections of erect declining Plains.

Sect. 5.

The affections of direct reclining/inclining Plains.

Sect. 6.

The affections of declining reclining/inclining Plains.

CHAP. III.

The delineation of Dials for any plain Superfices.

Sect. 1.

To delineate an horizontal Dial.

Sect. 2.

To describe an erect, direct South Dial.

Sect. 3.

To describe an erect, direct East Dial.

Sect. 4.

To describe an erect declining Dial, having a Center.

Sect. 5.

To describe an erect declining Plain without a

Center.Sect. 6.

To describe a direct polar Dial.

Sect. 7.

To draw a declining Polar.

CHAP. IV.

To determine what hour lines are proper for any plain Superfices. By projection of the Sphere.

Sect. 1.

To determine the hour lines for erect direct plains.

Sect. 2.

To determine the hour lines for direct reclining/inclining Plains.

Sect. 3.

To determine the hour lines for erect declining plains.

Sect. 4.

To determine the hours of declining reclining/inclining Plains.

FINIS.

Number of Pages: 150. Book 2 with 41 pages of Dialling. Illustrations: 18 of which 10 are in Book 2.