SAMUEL FOSTER, THE DESCRIPTION OF A RULER

London 1652



Number of Pages: 88 with 38 about Dialling. Illustrations: 37

Page Size:

Radius of Sines, Secants, Tangents, and common in use to them all. 8. A large Scale of Versed-Sines of the whole length of the Ruler, with a Zodiac annexed to it. 9. A Scale of unequall parts divided into 90, noted with ⊙, of two Inches Radius as is the line of Sines.

The book then continues with:

T H E Vses of the S C A L E S on the R U L E R.

C H A P. I. Of the Scale of equall parts. C H A P. II. Of the Scales of Chords.

C H A P. III. The joynt use of equall parts and Chords.

C H A P. IV. Of the Scales of Sines, Secants, and Tangents.

CHAP. V. OF NAVIGATION.

Some things in this kinde will be performed very conveniently by these lines:

> C H A P. V I. Of Projections of the Sphere.

CHAP. VII. Of the line of Versed-Sines.

CHAP. VIII. How to work proportions in Sines and Tangents, by the lines of Versed-Sines and \odot .

CHAP.IX. To finde the declination of a Plain.

CHAP. X. OF DIALS. To draw upright declining Dials, by the lines of Sines and Tangents.

C H A P. X I. Of the Horizontall and full South Dials.

C H A P. X I I. Of the Scale of Horizontall Spaces.

CHAP. XIII. How to draw upright declining Dials when the Latitude of the place is very little or very great. A Upright Plain Declining from the North towards the East, 30gr.



CHAP. XIIII. Concerning Reclining and Inclining Plains, how to draw houres upon them.

C H A P. X V. Concerning full East and West re-inclining plains.

C H A P. X V I. Concerning re-in-cliners, that are direct, or have no declination.

C H A P. X V I I. How to deal with those plains, where the Pole is but of small elevation.

CHAP. XVIII. Having the Latitude of the place, and the plains declination, to finde the plains difference of Longitude.

C H A P. X I X. Of Polar Plains, on which the Pole is not elevated at all.

C H A P. X X. Another way to prick down the hourepoints, by the Tangent line on the Scale.

C H A P. X X I. A second way for re in-cliners.

C H A P. X X I I. A third way for all re-in-clining Dials.

Note in all these three wayes of Dialling.

All directions here given suppose you to be in the Northern Hemisphere of the world. If therefore you should be in the Southern Hemisphere, you may easily make these precepts serve there too, by only altering the name of North, Northen, &c. and South Southern, &c. one into the other.

FINIS.