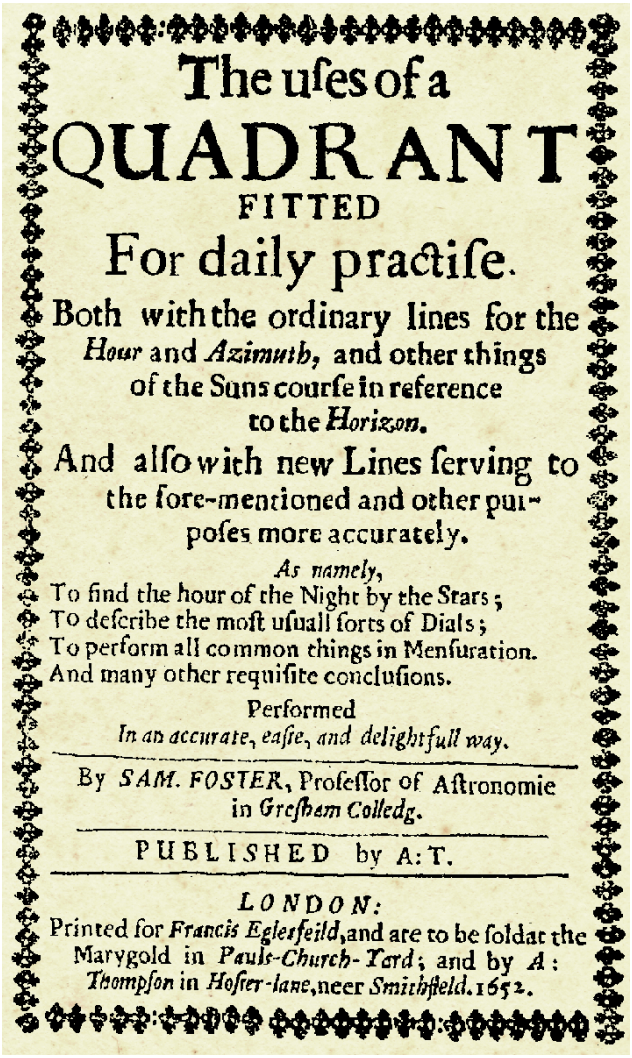
SAMUEL FOSTER, THE USES OF A QUADRANT

London 1652



The uſes of a

QUADRANT

FITTED

For daily practiſe.

Both with the ordinary lines for the *Hour* and *Azimuth*, and other things of the Suns courſe in reference to the *Horizon*.

And alſo with new Lines ſerving to the fore-mentioned and other purpoſes more accurately.

As namely,

To find the hour of the Night by the Stars;
To deſcribe the moſt uſuall ſorts of Dials;
To perform all common things in Menſuration.
And many other requiſite concluſions.

Performed
In an accurate, eaſie, and delightfull way.

By *SAM. FOSTER*, Profeſſor of Aſtronomie in *Greſham Colledg.*

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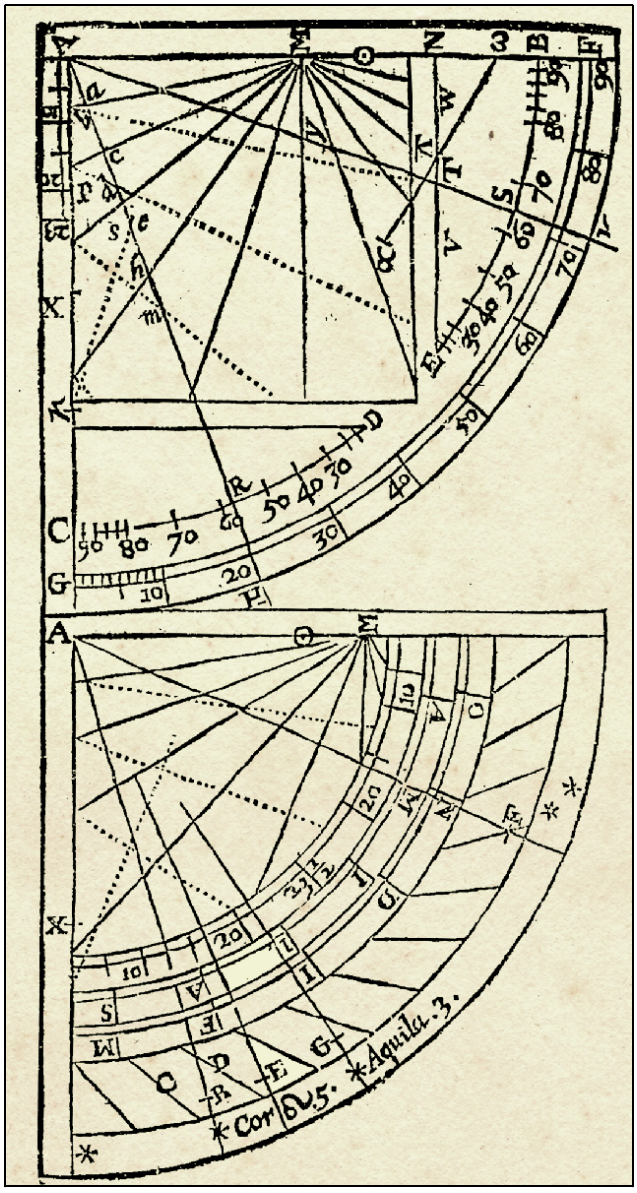


"The uses of a **QUADRANT** FITTED For daily practice" is a small book containing:

The uses of the
QVADRANT.

I. *To finde the Suns Declination.*

II. *To rectifie the Bead for observation of Houre or Azimuth ; and to perform those things that are done by the usuall lines upon the Quadrant.*

V. *To finde when Twilight begins in the Morning and ends at Evening : which moments are the two utmost termes of darke night.*

III. *To finde the Suns Ascensionall difference, &c.*

IV. *To finde the suns Amplitude, &c.*

V. *Having the declination of any upright plane, to finde the elevation of the style, &c.*

VI. *To finde the Deflexion, &c.*

VII. *To finde the planes Difference of longitude, &c.*

VIII. *To make an Horizontal Diall.*

IX. *To finde what Angle any hour-circle maketh with the Horizon ; or any Azimuth makes with the Equinoctiall.*

X. *To finde what arke of any houre-circle is intercepted between the Equinoctiall (or any Parallel) and the Horizon.*

XI. *How high the Sun shall be upon any Azimuth, and in any Declination.*

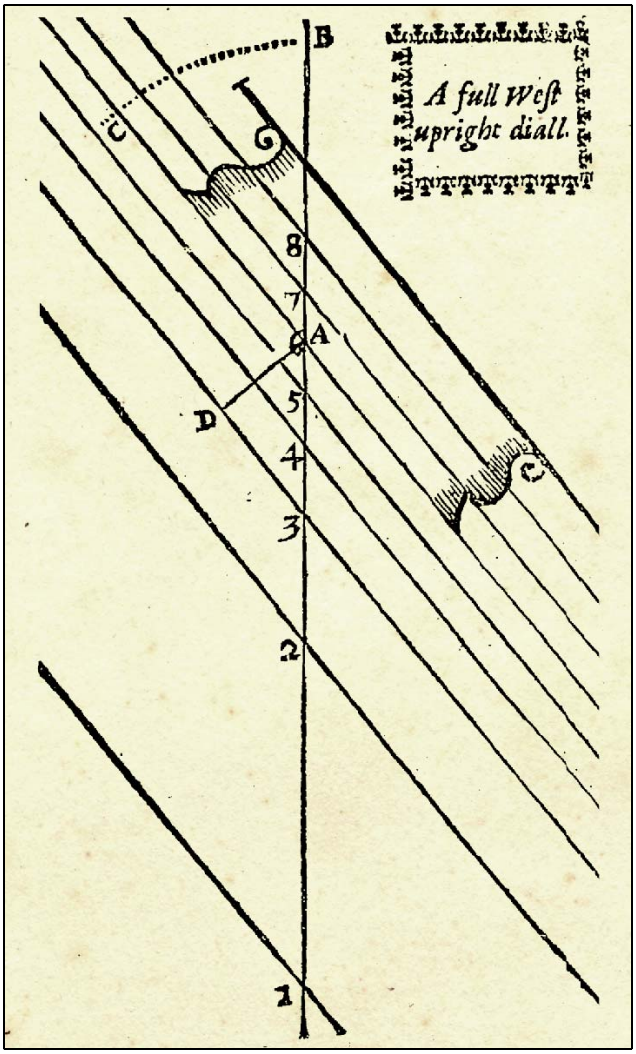
XII. *To finde how high the Sun shell be at any houre, and in any Declination.*

XIII. *To finde the Suns Azimuth.*

XIIII. *To finde the houre of the day by the Sun.*

XV. *On an Upright declining plane, to finde the angle between* 12 *and* 6.

Number of Pages: 88.
Illustrations: 6 pages.



A Full West Upright Diall

XVI. *To finde the Declination of a plane.*

XVII. *How to draw any upright declining Diall.*

XVIII. *Of the upright full South-Diall.*

XIX. *Of Upright far declining plaines.*

XX. *Of full East and West upright Dialls.*

XXI. *In East and West re-in-cliners, To get the Deflexion.*

XXII. *To finde the angle Between* 12 *and* 6.

XXIII. *To get the Styles Elevation.*

XXIV. *To finde the difference of Longitude.*

XXV. *How to draw the Diall.*

XXVI. *To make an Horizontall Diall to any Latitude.*

XXVII. *To finde the houre of the Night by the Starres.*

The use of the Altimetric Scale.

I. *To finde any height at one observation.*

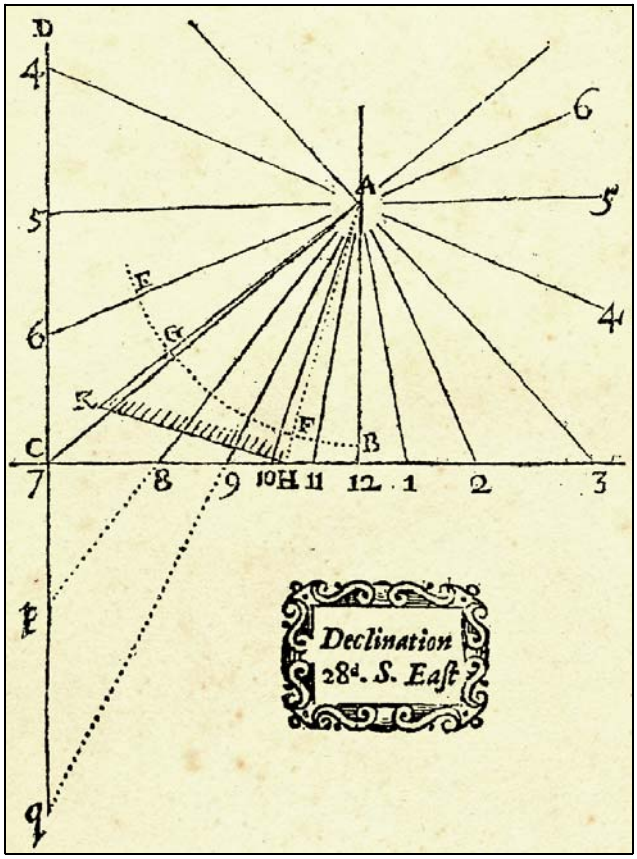
II. *To finde part of an Altitude.*

III. *Standing upon a known height, to finde a Difference.*

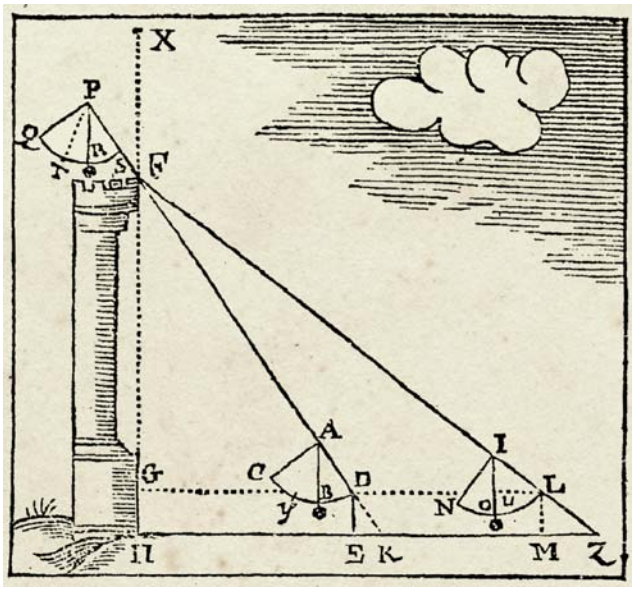
IV. *To finde part of a distance.*

V. *To finde a height at two observations.*

F I N I S.



A Dial Declining South-East



Using the Quadrant to find the height of a Tower