## London 1652


"Posthuma Fosteri: the DESCRIPTION OF A RULER, Upon which is inscribed divers SCALES: AND The Vses thereof:" was published in 1652 with another issue, virtually identical on 1654. Certain scales on the ruler may be used for the construction of sundials.
It commences with:
The description of the Scales on the Ruler.
$T$ Here are 9 Scales upon the Ruler, 1. Of Inches or equall parts.
2. Of Horizontall spaces : with
3. A Scale of 60 Chords fitted to the same Radius, proper to that Horizontall Scale.
4. A Scale of Sines, to a Radius of two Inches.
5. A Scale of Secants : and
6. Of Tangents, both of the same Radius with the Sines.
All these are upon one side, On the other side is,
7. A little Scale of 60 Chords, of the same length with the common


Both Sides of the Ruler.

Radius of Sines, Secants, Tangents, and common in use to them all.
8. A large Scale of VersedSines of the whole length of the Ruler, with a Zodiac annexed to it.
9. A Scale of unequall parts divided into 90 , noted with $\odot$, of two Inches Radius as is the line of Sines.
The book then continues with:
THE
Vses of the ScALES on the
Ruler.

C H A P. I.
Of the Scale of equall parts.
C H A P. II.
Of the Scales of Chords.
CHAP. III.
The joynt use of equall parts and Chords.

C H A P. I V.
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 VersedSines and $\odot$.

C HAP. I X.
$T o$ 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. XI.
Of the Horizontall and full South
Dials.
C HAP. XII.
Of the Scale of Horizontall Spaces.
C HAP. 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. XVI.
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.

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

C H A P. XIX.
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 XII.

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.

F I N I S.

