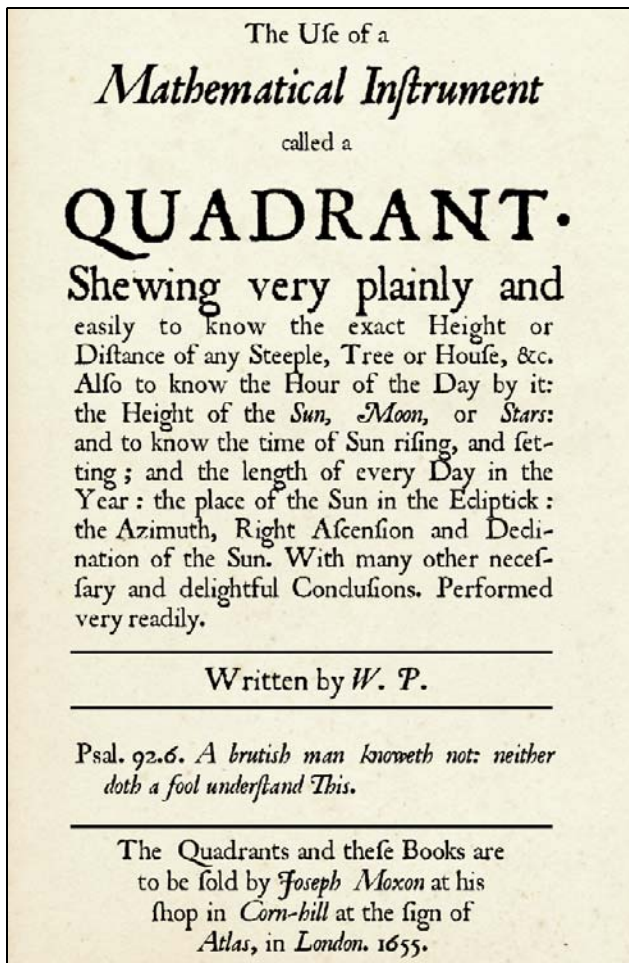


W. P., THE USE OF THE QUADRANT.

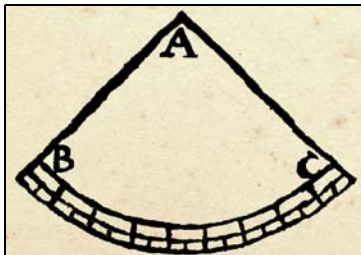
London 1655



"The Use of a *Mathematical Instrument* called a **QUADRANT**" is a small book starting with the following explanation:

THE USE Of the Quadrant.

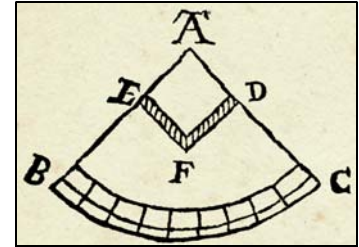
A Quadrant is the fourth part of a Circle, and is comprehended between two Semidiameters; as in the Figure A B C, where A is the Center, A B one of the Semidiameters, and A C the other and the outmost Verge B C is the Limb of the Quadrant, or more properly the Quadrant it self, being one Quarter of a Circle, and therefore is called by the Latine word *Quadrant*.



*To take the Altitude of the Sun
without looking by the eye.*

What is meant by Altitude ?

Now in some Quadrants there is described a *Quadrat*, which is made of two lines coming from the Semidiameters, A B and A C, as in the Figure you may see marked; and they are divided into fifty equal parts. That part of the Quadrant which is next the Sights, is called *The Scale of Contrary shadow*; and the other, *The Scale of Right shadow*. The use of the Quadrant is to take Heights and Distances without measuring them.



SECT. II.

Shewing the use of Houre lines, and Azimuth lines, &c.

Because the Quadrant and Quadrant fills not up the Instrument, but that there is vacant places left without any inscription; therefore many knowing men have invented several Lines &c. to fill them up with :

And first of all, *Stophler* (in his *Elucidatio Fabricæ usque Astrolabii*) teaches to make Hour-lines for the time of the day ; yet he describes them in his Quadrant in such an imperfect manner, that it is plainly to be seen he rather affected ease, then truth.

Since him. M. *Gunter* hath invented Hour-lines, after a more perfect way, and also illustrated the Quadrant with Azimuth-lines, and a Scale of the days of the Moneth, an Arch of the Horizon and the Ecliptique line, and also the Places of some notable Stars that lie between the Equator and Tropick.

The use of the Circle of Months, Ecliptick, Horizon Line of Declination, Hour-Lines, Azimuths, and the five Stars, are briefly as followeth.

- First the Use of the Circle of Moneths.
- Secondly, *The Use of the Ecliptick Line.*
- Thirdly, *The use of the Horizon Line.*
- Fourthly, *The use of the Hour-lines.*
- Fifthly, *The use of the Azimuth lines.*

Lastly, *The use of the five Stars is thus:*

FINIS.