

# JOHN BROWN, THE DESCRIPTION AND USE OF A JOYNT-RULE

London 1661

## The Description and Use OF A JOYNT-RULE:

Fitted with Lines for finding the Hour of the Day, and Azimuth of the Sun, to any particular Latitude ; Or to apply the same generally to any latitude.

Together with all the uses of *Gunters* quadrant applyed thereunto, as Sun-rising, Dedination, Amplitude, true place right Ascension, and the hour of the Night by the Moon, or fixed Stars;

A speedy and easie way of finding of Altitudes at one or two stations ; Also the way of making any kinde of erect Sundial to any Latitude or Dedination, by the same Rule: With the Description and Use of several Lines for the mensuration of *Superfices*, and *Solids* , and of other Lines usually put on Carpenters Rules :

Also the use of Mr. *Whites* Rule for measuring of Board and Timber, round and square ; With the manner of using the *Serpentine-line* of Numbers, Sines, Tangents, and Versed Sines.

*Contriv'd & written by J. Brown, Philom.*

London, Printed by T. F. for J. Brown, and H. Sutton, and sold at their houses in the Minories, & Threadneedle-street. 1661.



P.R. Fe

“The Description and Use OF A JOYNT-RULE” is a small book containing the following:

### CHAP. I.

*The Description of the Lines on the Rule, as it is made onely for one Latitude, and for the finding the hour of the day onely.*

### CHAP. II.

*The Uses of the Rule follow.*

### CHAP. III.

*A further description of the Rule, to make it to shew the Suns Azimuth, Declination, True place, right Ascension, and the hour of the day or night, in this, or any other Latitude.*

### Using the Joynt-Rule

### CHAP. IV.

*The Uses follow in order.*

### CHAP. V.

*Having the Suns Declination, or day of the moneth to finde the Azimuth at any Altitude required for that day.*

### CHAP. VI.

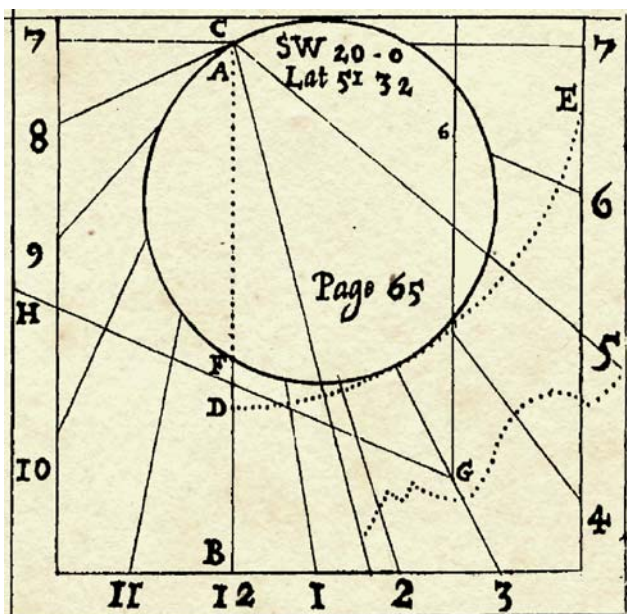
*To finde the hour of the Night by the Moon.*

### CHAP. VII.

*To finde the hour of the Night by the fixed Stars.*

Number of Pages: 190

Illustrations: 11



*A Vertical Declining Dial*

CHAP. VIII.

To finde the Amplitude or Azimuth of the fixed Stars ; also their rising, setting, and southing.

CHAP. IX.

To perform the fore-going work in any latitude, as rising, amplitude, ascensional difference, latitude, hour, and azimuth, wherein I shall give onely the rule, and leave out the examples for brevity sake.

CHAP. X.

To finde all the necessary quesita for any erect declining Sun-dial both, particularly and general, by the lines on the Dial side, also by numbers, sines, and tangents artificial, being Logarithms on a Rule.

CHAP. XI.

To draw a Horizontal Dyal to any latitude.

CHAP. XII.

To draw a Vertical, Direct, South, or North Dyal.

CHAP. XII. (sic.)

To draw an erect East or West Dial.

CHAP. XIII.

To finde the declination of any Plain.

CHAP. XIV.

To draw a vertical declining Plain to any declination.

CHAP. XV.

To draw the Hour-lines on an upright declining Dial, declining above 60 degrees.

CHAP. XVI.

To finde a perpendicular altitude at one or two stations, and observations by the degrees on the rule. (sic.)

CHAP. XVII.

The use of certain lines for the mensuration of superficial and solid bodies, usually inserted on Joynt-Rules for the use of Work-men, of several sorts and kindes.

CHAP. XVIII.

The use of Mr. Whites rule, for the measuring of Timber and Board, either by inches or foot measure.

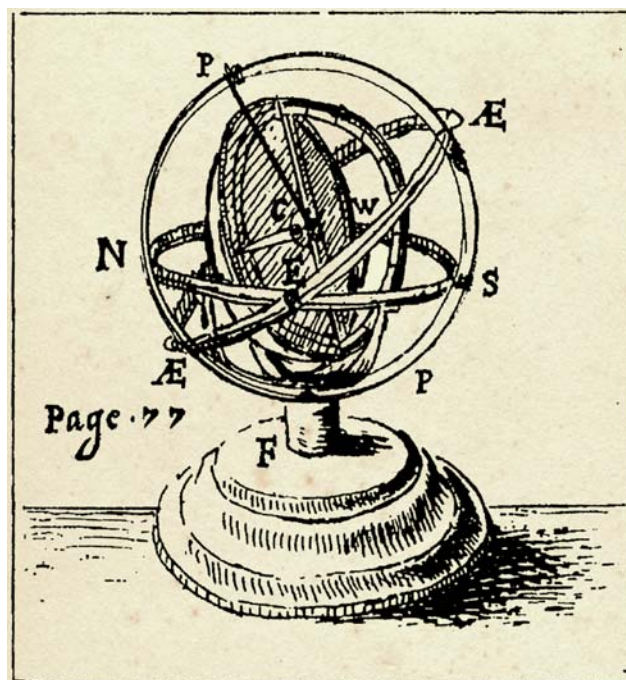
CHAP. XIX.

Certain Propositions to finde the hour, and the Azimuth, by lines on the Sector.

CHAP. XX.

A brief description, and a short touch of the use of the Serpentine-line, or Numbers, Sines, Tangents, and versed sine contrived in five (or rather 15) turn.

FINIS.



*Instrument to Demonstrate Dialling Techniques*