# CHARLES LEADBETTER, MECHANICK DIALLING <br> London 1756 

## Mechanick Dialling; Or, the New Art of Shadows: <br> Freed from the many Obfcurities, Superfuities and Errors Of FormerW ritersupon this Subject. <br> The rwhole laid down after fo plain a Method, that any Perfon (tho' a Stranger to the Art) <br> With a Pałr of Compasses and Common Ruler only, May make aDial upon anyPlane for anyPlace in the Worid, as well as thofe who have attained to the greatelt Kiowisdge and Perfection in the Mathematics. <br> Illuftrated with many Copper Plates, And <br> Examples oi Dials for London, Exeter, Brifol, Wrefier, Oxford, Cambridge, Nor - ich, Lincoln, Chefier, Livocrpool, York, Newcaflie upon Tyne, Durbain, Eu...ourgh, Dublin, \&c. <br> 1. A Collection of above 300 Mottos in Latin and $E_{n g} l i j \beta$. <br> - $\quad N_{c}=w$ and Correct Alphabetical Table of the mofteminent Citics and rwons, in the wholeWorld; thewing the Etevalion of tive Puble, and ine Difference of their-Meridian frumiondon. <br> 3. The beft and moft approved Metheds of Painting Sur-Dials. <br> A. Work not only ufeful for Intififers, but very entertaining for Gentlamen, and thofe Stu* den's at the Univerfitics, that would underfland Dialigng, without the Fatigue of going through a Couric of Mathematics. <br>   <br> By Mr, CHARLESLEADBETTER. <br> $L O N D O N$ : <br> printed for E. Whckstemp, in Warwick-Court, Warwick-Labs; Niqugatc-Street, $175^{6}$.

"Mechanick Dialling; Or, the New Art of Shadows" is a smallish book containing 27 Chapters:

CHAP. I. Treats of Things necessary to be known by the Mechanic Dial-Maker.
CHAP. II. Of DiAlling in General.
CHAP. I I I. To make an Equinoctial Dial.
CHAP. I V. To make an Horizontal Dial.
CHAP. V. To make an erect direct South Dial.

CHAP. V I. To make an erect direct North Dial.
CHAP. V I I. To draw an erect direct East Dial.

CHAP. V I I I. To draw an erect direct West Dial.
CHAP. IX. To make a Polar Dial.


The Sphere as discussed in CHAP. XII.
CHAP. X. To find the Declination of a Wall or Plane whereon to draw a Sun-Dial.

CHAP. X I. To make an erect Declining Dial.
CHAP. X I I. To make a Dial upon a Plane when the Pole has but a small Elevation above the Plane.

CHAP. X I I I. To make a declining reclining Dial.

CHAP. X I V. To make an East or West Reclining Dial.
CHAP. X V. To make a North or South Declining Reclining or Inclining Dial.

CHAP. X V I. To make a Reflective Dial. CHAP. X V I I. To make a Refracted Dial. CHAP. X V I I I. To make a Globe Dial.

CHAP. X I X. To make a Cross Dial, a Star Dial, and a Window Dial.

This chapter is followed by various tables.

CHAP. X X. Shewing the Use of the Scales in Plate II.

CHAP. X X I. A Review of the Equinoctial and Direct East and West Dials.

CHAP. X X II. A D E SCRIPTION of the S P H E R E. (See the Print.)

CHAP. X X I I I. Motto’s for Dials, with their Meaning in English.
Here are listed 301 mottoes.
CHAP. X X I V. A new Table of the Elevation of the Pole, and Difference of Meridians from London.
CHAP. X X V. Concerning the Motion of the Hands of a Clock or Watch, as it represents the Motion of the Sun and Moon.
CHAP. X X VI. Of P A inting Sun Dials, and first of the Planes or Surfaces on which D I A L S are to be drawn.


How to construct a Cross Dial
CHAP. X X V I I. The Manner of Painting Timber Work.

FINIS.


Dialling Scales

