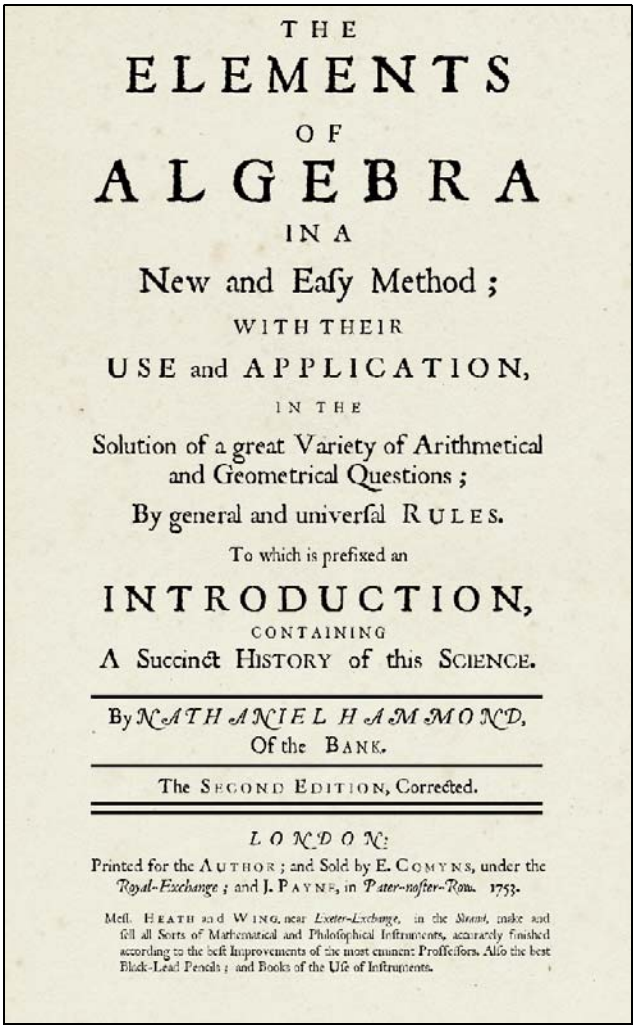
NATHANIEL HAMMOND, THE ELEMENTS OF ALGEBRA

London 1753



THE
ELEMENTS
OF
ALGEBRA
IN A
New and Easy Method;
WITH THEIR
USE and APPLICATION,
IN THE
Solution of a great Variety of Arithmetical and Geometrical Questions;
By general and universal RULES.
To which is prefixed an
INTRODUCTION,
CONTAINING
A Succinct HISTORY of this SCIENCE.

By NATHANIEL HAMMOND,
Of the BANK.

The SECOND EDITION, Corrected.

LONDON:
Printed for the AUTHOR; and Sold by E. COMYNS, under the *Royal-Exchange*; and J. PAYNE, in *Pater-noster-Row*. 1753.

Meſſ. HEATH and WING, near *Exeter-Exchange*, in the *Strand*, make and ſell all Sorts of Mathematical and Philoſophical Inſtruments, accurately finiſhed according to the beſt Improvements of the moſt eminent Profeſſors. Alſo the beſt Black-Lead Pencils; and Books of the Uſe of Inſtruments.

"THE ELEMENTS OF ALGEBRA IN A New and Easy Method" is a smallish book with a section on Dialling starting on Page 338. It contains:

Of DIALLING

To calculate an Horizontal Dial for the Latitude of 51°.32'.

To make an erect direct South Dial for the Lat. of 51°.32'.

Of East and West Dials.

To calculate the Distances of the Hour-Lines from the Six o'Clock Line for direct East or West Dials.

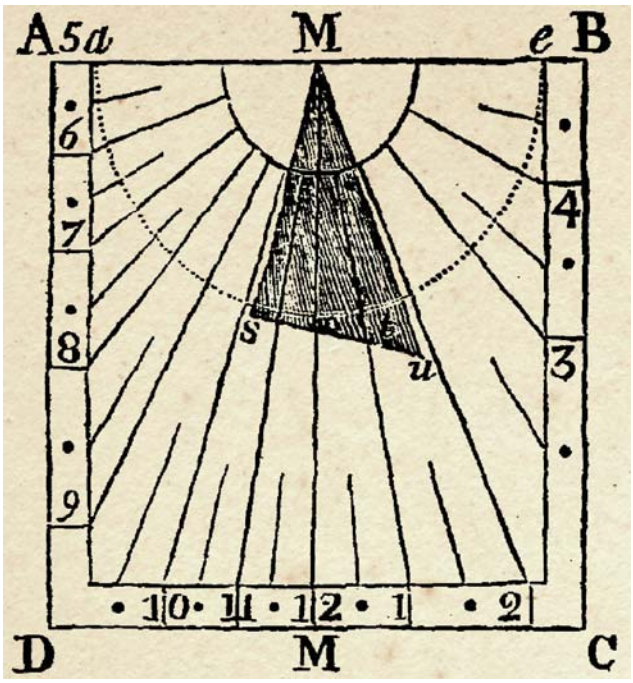
To draw an East Dial for the Latitude of 51°.32'.

Of Declining Dials.

To find the Declination of any Plane.

To find the Height of the Style, or Elevation of the Pole above the Plane.

To find the Angle of the Substyle with the Meridian.



A Vertical Declining Dial

To find the Plane's Difference in Longitude.

To draw a Dial for the Latitude of 51°.32' *on a Plane declining from the South Westward* 72°.26'.

To draw the Dial geometrically.

Of Reclining and Inclining Dials.

To take the Reclination of a Plane.

To make a direct South Dial for a Plane reclining 10°.56' *in the Latitude of* 51°.32'.

To make a direct South Dial reclining 79°.34' *for the Latitude of* 51°.32'.

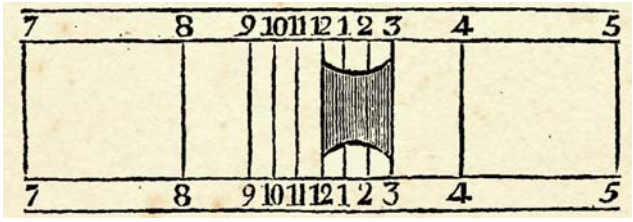
A Polar Dial for the Latitude of 51°.32'.

To draw an Æquinoctial Dial.

Of East and West Reclining Dials.

Of an East Plane in the Latitude of 51°.32' *reclining* 19°.49'.

Of Inclining Planes.



A Polar Dial for Latitude 51°.32'

Number of Pages: 22 Pages of Dialling Page Size:
Illustrations: 12