

HENRY SUTTON, A DESCRIPTION & USE OF A LARGE QUADRANT

London 1669

A DESCRIPTION & USE OF A

LARGE QUADRANT,

Contrived and made

By *H. SUTTON*

ACCOMMODATED

With various LINES, for
the easie Resolving of All
ASTRONOMICAL, GEOMETRI-
CAL, and GNOMONICAL PRO-
BLEMS, for working of Proporti-
ons, and for finding the Hour universally.

Whereunto is Added,

The Description and Use of a
GEODÆTICAL SCHEME,
and GNOMONICAL INSTRU-
MENT: The first shewing (by In-
spection) the Dimensions of All
Geometrical Bodies: The other is
applied to Gnomonical Uses.

Published by *R. MORDEN*

*London, Printed by W. Godbid for R. Morden at
the Atlas in New Cheapside in London. 1669.*

“A DESCRIPTION & USE OF A LARGE
QUADRANT” is a small book with the following
Contents:

OF A QUADRANT IN GENERAL.

A General Description of the se-
veral LINES inscribed upon
this QUADRANT, and to what
Uses each of them may be made
applicable.

Of each particular Line upon the
Quadrant, and its Use.

I. Of the Lines (or Cir-
cles) of Months.

II. Of the Line (or Cir-
cle) of the Suns De-
clination.

III. Of the Ecliptick Line.

IV. Of the Horizon.

V. Of the Equal Limb.

VI. Of the Projection.

VII. Of the Proportion-
al Lines upon the Sides
of the Quadrant.

VIII. Of the Proportion-
al Lines on the Limb
of the Quadrant.

IX. Of the Quadrant for
Altitudes, on the Limb
of the Quadrant.

X. Of the Quadrants of
the Suns and Stars As-
censions, and of finding
the Hour of the Night
by any of the Stars
therein placed.

XI. Of the Dialling Scales
upon the Sides of the
Quadrant.

I. *How to draw an Hori-
zontal Dial in any La-
titude.*

II. *How to draw a direct
South Dial in any Lat-
itude.*

III. *How to draw an up-
right declining Dial in
any Latitude.*

FINIS.

THE DESCRIPTION & USE OF THE *Geodætical Scheme.*

PART I.

Of GAUGING.

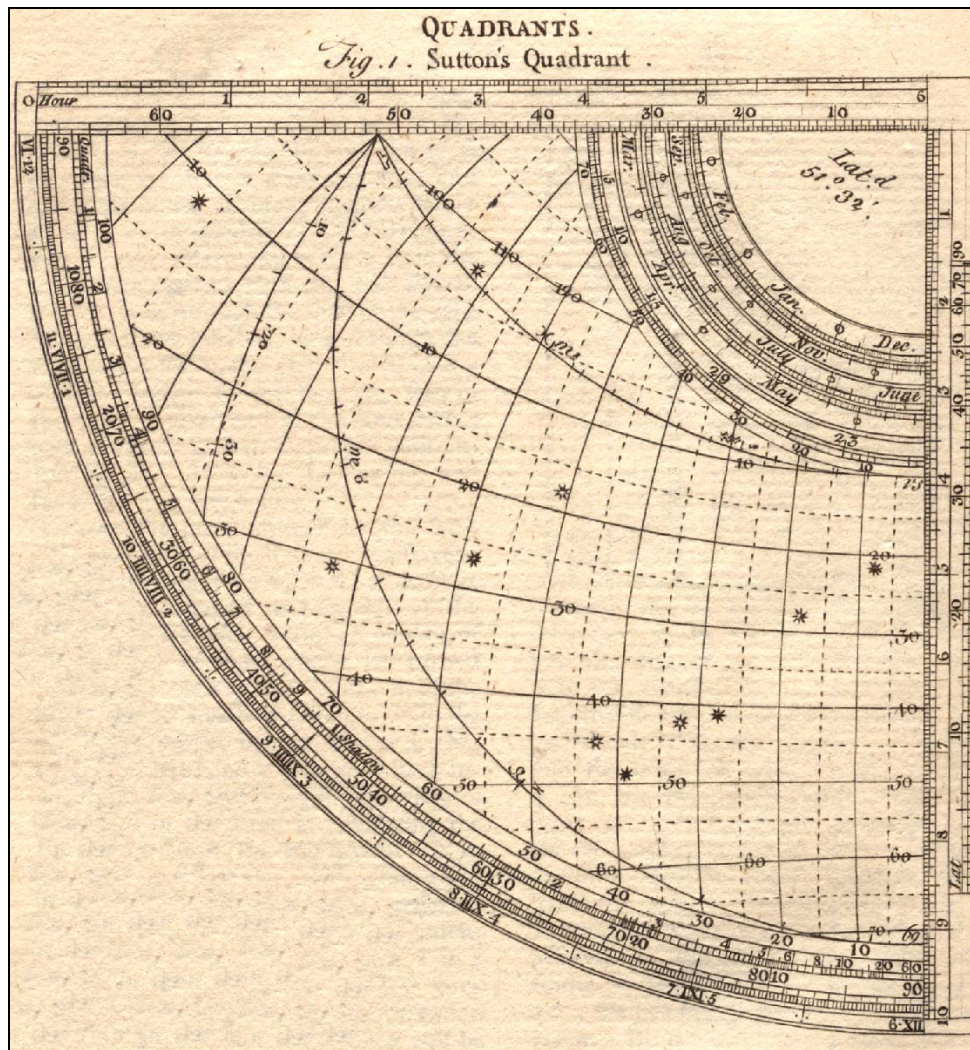
THE DESCRIPTION & USE OF THE *Gnomonical Instrument.*

PART II.

I. *Of the Lines of Right and Rever-
sed Shadow.*

2. *To take the Altitude of any Ob-
ject.*

Of the dial Schemes and Lines.



The Front Face of a Sutton's Quadrant as Illustrated in 'A New and Complete Dictionary of Arts and Sciences' by a Society of Gentlemen, published in London 1754.

Of the first Dial Scheme.

To make an Horizontal Dial by the first Scheme.

Of the second Dial Scheme.

To make a South Dial by the second Scheme.

Of the third Dial Scheme.

To make an Horizontal Dial by the third Scheme.

Of the Horizontal Dial Lines.

To make an Horizontal Dial by the first Hours-Scale,

Of the Meridian Dial-Lines.

To make a Meridian or South Dial by the second Hour-Scale.

Of the East and West Dials.

To make an East or West Dial by the Scheme.

To find the Extent of a Tangent continued above 45 degrees.

To make an Horizontal Dial by the Triangle near the Centre, representing the Cock of the Dial.

To draw a Meridian or South Dial by the Triangle near the Centre, representing the Cock of a Dial.

To draw an East, West, or Æquinoctial Dial, by the Triangle upon the Centre, representing the Cock of a Dial.

To place the Twelve Signs of the Zodiac on an Horizontal or Meridian Dial.

To place the parallels of the length of the Day on a Horizontal or Meridian Dial.

To place the Planetary Hours in an Horizontal or Meridian Dial.

To place the Azimuths in an Horizontal, or Meridian Dial.

To place the Almicanter in an Horizontal or Meridian Dial.

FINIS.