

MISCELLANEOUS WORKS
 Of Mr. *John Greaves*,
 Professor of ASTRONOMY
 IN THE
 University of Oxford:

Many of which are now first Published.

- | | |
|--|---|
| <p>I. PYRAMIDOGRAFIA; or a Description of the PYRAMIDS in <i>Egypt</i>. With a great many ADDITIONS and ALTERATIONS, from a Copy corrected by the AUTHOR.</p> <p>II. A DISCOURSE of the Roman Foot, and DENARIUS; from whence, as from two</p> | <p>Principles, the Measures and Weights used by the ANCIENTS may be deduced.</p> <p>III. TRACTS upon various Subjects, Letters, Poems, and Observations in his Travels in Italy, Turkey, and Egypt.</p> <p>IV. A Description of the Grand SEIGNOR'S SERAGLIO.</p> |
| <i>To which are added,</i> | |
| <p>I. REFLECTIONS on the PYRAMIDOGRAFIA, written by an anonymous AUTHOR, soon after the Publication of that BOOK.</p> <p>II. A DISSERTATION upon the SACRED CUBIT of the Jews, and the CUBITS of the several Nations; in which,</p> | <p>from the Dimensions of the greatest Egyptian PYRAMID, as taken by Mr. GREAVES, the ancient Cubit of Memphis is determined.</p> <p>Translated from the Latin of Sir ISAAC NEWTON,
 Not yet published.</p> |

Adorn'd with SCULPTURES.

To the whole is prefix'd,
 AN HISTORICAL and CRITICAL ACCOUNT of the LIFE
 and WRITINGS of the AUTHOR.

IN TWO VOLUMES.

Published by THOMAS BIRCH, M. A. F. R. S.
 and MEMBER of the SOCIETY of ANTIQUARIES, LONDON.

L O N D O N;

Printed by J. HUGHS, near *Lincoln's-Inn-Fields*,
 For J. BRINDLEY, Bookseller to his Royal Highness the Prince
 of *Wales*, in *New-Bond-Street*; and C. CORBETT, over-
 against *St. Dunstan's Church, Fleet-street*. 1737.

Pyramidographia:
OR, A
DESCRIPTION
OF THE
PYRAMIDS
IN
ÆGYP T.

By *JOHN GREAVES*,
Professor of Astronomy in the University of *Oxford*.

Illustrated with Cuts, engraved by a curious hand.

*Romanorum Fabricæ, & antiqua opera (cum veniâ id dictum
sit) nihil accedunt ad Pyramidum splendorem & superbiam.*
BELLON. lib. 2. Observ. cap. 42.



L O N D O N:
Printed for J. BRINDLEY, Bookbinder to her Majesty,
and Bookseller to his Royal Highness the Prince of
Wales, at the *King's Arms* in *New Bondstreet*. 1736.

in some places than in others: but this inequality could not be discerned by the eye, but only by measuring it with a careful hand. By my observation with a line, this gallery contained in length an hundred and ten feet. At the end of this begins the second gallery, a very stately piece of work, and not inferior either in respect of the curiosity of art, or richness of materials, to the most sumptuous and magnificent buildings. It is divided from the former by a wall, through which stooping we passed in a square hole, much about the same bigness as that by which we entred into the Pyramid, but of no considerable length. This narrow passage lieth level, not rising with an acclivity, as doth the pavement below, and roof above, of both these galleries. At the end of it, on the right hand, is the well mentioned by *Pliny*; the which is circular, and not square, as the *Arabian* writers describe: the diameter of it exceeds three feet; the sides are lined with white marble, and the descent into it is by fastening the hands and feet in little open spaces cut in the sides within, opposite and answerable to one another, in a perpendicular. (*This Well is described in Plate 2. Fig. 1.*) In the same manner are almost all the wells and passages into the cisterns at *Alexandria* contrived, without stairs or windings, but only

ascend, all of them lying as it were in the same continued line, and leading to the middle of the Pyramid, we may easily apprehend a reason of that strange echo within of four or five voices, mentioned by (1) *Plutarch* in his fourth book *De placitis Philosophorum*; or rather of a long-continued sound, as I found by experience, discharging a musket at the entrance. For the sound being shut in, and carried in those close and smooth passages, like as in so many pipes or trunks, finding no issue out, reflects upon itself, and causes a confused noise, and circulation of the air, which by degrees vanishes, as the motion of it ceases. **This gallery or corridoꝛ, or whatsoever else I may call it, is built of white and polished marble, the which is very evenly cut in spacious squares or tables. Of such materials as is the pavement, such is the roof, and such are the side-walls that flank it: the coagmentation or knitting of the joints is so close, that they are scarce discernable to a curious eye; and that which adds grace to the whole structure, though it makes the passage the more slippery and difficult, is the acclivity and rising of the ascent.** The height of this gallery is twenty six feet, the

(1) Ἐν γὰρ ταῖς κατ' Αἴγυπτον ἀνεγμίσιν ἑνδοῦ οὐκ ἔστι μία ἰσηγομένη τέλει ἢ ἡ ἀνὰ τὴν ἰχθὺς ἀπεργάζεται.
Plut. lib. 4. de Philos. plac. cap. 20.

breadth

breadth is six feet, and 870 parts of the foot divided into 1000; of which, three feet, and 435 of 1000 parts of a foot, are to be allowed for the way in the midst, which is set and bounded on both sides with two banks (like benches) of sleek and polished stone; each of these hath one foot, 717 of 1000 parts of a foot in breadth, and as much in depth. Upon the top of these benches, near the angle, where they close and join with the wall, are little spaces cut in right-angled parallel figures, set on each side opposite to one another; intended, no question, for some other end than ornament. In the casting and ranging of the marbles in both the side-walls, there is one piece of architecture, in my judgment, very graceful, and that is, that all the courses or ranges, which are but seven (so great are those stones) do set and flag over one another about three inches; the bottom of the uppermost course over-setting the higher part of the second, and the lower part of this overflagging the top of the third; and so in order the rest, as they descend. Which will better be conceived by the representation of it to the eye, as in *Plate 2. Fig 2.* than by any other description.

Having passed this gallery, we enter another square hole, of the same dimensions with the former, which brings us into two