

Gad.
1471/72

Hales, Stephen

Statical essays:... I-II. London 1731-33
2.vol.

- I. Statical essays: containing vegetable staticks; or, an account of some statical experiments on the sap in vegetables.... 2.ed
- II. Statical essays: containing haemastaticks; or, an account of some hydraulick and hydrostatical experiments made on the blood and blood-vessels of animals... With an index to both volumes.

Gad. n:r 1471-1472.

Helfranska band. Väl bibehållna.



MASSACHUSETTS
HALES.

Stockholm in Decemb 1738

B.B.

STATICAL ESSAYS:
CONTAINING
VEGETABLE STATICKS;
Or, An Account of some
STATICAL EXPERIMENTS
ON THE
SAP in VEGETABLES.

BEING
An ESSAY towards a Natural History of
Vegetation: Of Use to those who are cu-
rious in the Culture and Improvement of
GARDENING, &c.

Also, A Specimen of an Attempt to Analyse the
Air, by a great Variety of CHYMIO-STATICAL
EXPERIMENTS, which were read at several
Meetings before the ROYAL SOCIETY.

VOL. I.

*Quid est in his, in quibus natura & ratio intelligentis apparatus? Tul. de Nat. Deor.
— Etenim Experimentorum longe major est subtilitas, quam sensus ipsius—
Itaque ea rem detestantur, ut sensus tantum de Experimento, Experimentum
de re iudicat. Fran. de Verul. Influensio magna.*

By STEPH. HALES, B. D. F. R. S.
Rector of Farringdon, Hampshire, and
Minister of Teddington, Middlesex.

The SECOND EDITION, with Amendments,

LONDON:
Printed for W. INNES, at the West End of St. Paul's; T. WOOD-
WARD, at the Half-Moon over-against St. Dunstan's Church
in Fleetstreet; and J. PERLES, at Locke's Head in
Amen-Corner. M, DCC, XXXI.

DEDICATION.

That this Great Author of Nature
may shower down on Your Royal
Highness an abundance of his Bless-
ings, both Spiritual and Temporal,
is the sincere prayer of

Your Royal Highness's

Most Obedient

Humble Servant,

STEPHEN HALES.

THE

DEDICATION.

unreasonably to cast on researches of this kind, notwithstanding they are the only solid and rational means whereby we may ever hope to make any real advance in the knowledge of Nature: A knowledge worthy the attainment of Princes.

And as *Solomon*, the greatest and wisest of men, disdained not to inquire into the nature of Plants, *from the Cedar in Lebanon, to the Hyssop that springeth out of the wall*: So it will not, I presume, be an unacceptable entertainment to Your Royal Highness, at least at Your leisure hours; but will rather add to the pleasure, with which vegetable Nature in her prime verdure charms us: To see the steps she takes in her productions, and the wonderful power she therein exerts: The admirable provision she has made for them, not
only

DEDICATION.

only vigorously to draw to great heights plenty of nourishment from the earth; but also more sublimed and exalted food from the air, that wonderful fluid which is of such importance to the life of Vegetables and Animals: And which by infinite combinations with natural bodies, produces innumerable surprizing effects; many instances of which I have here shewn.

The searching into the works of Nature, while it delights and enlarges the mind, and strikes us with the strongest assurance of the wisdom and power of the divine Architect, in framing for us so beautiful and well regulated a world, it does at the same time convince us of his constant benevolence and goodness towards us.

Fig. 3.



Fig. 4.



Fig. 5.



S.G.

Feb. 16, 1726-7. *Imprimatur*

ISAAC NEWTON. *Pr. Reg. Soc.*

T O

His Royal Highness

G E O R G E

Prince of WALES.

May it please Your Royal Highness,

I Humbly offer the following Experiments to Your Highness's Patronage, to protect them from the reproaches that the ignorant are apt

A 2

un-