

PRACTICAL ESSAYS
ON
M I L L W O R K
AND OTHER
M A C H I N E R Y.

G. WOODFALL AND SON, ANGEL COURT, SKINNER STREET, LONDON

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PRACTICAL ESSAYS

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ON

M I L L W O R K

AND OTHER

MACHINERY.

BY ROBERTSON BUCHANAN, ENGINEER.

WITH

NOTES AND ADDITIONAL ARTICLES,

CONTAINING NEW RESEARCHES ON VARIOUS MECHANICAL SUBJECTS,

BY THOMAS TREDGOLD, C.E.,

MEMBER OF THE INSTITUTION OF CIVIL ENGINEERS.

AND NOW

REVISED INTO A THIRD EDITION WITH ADDITIONS,

BY GEORGE RENNIE, ESQ. C.E. F.R.S.

ETC.

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AND NUMEROUS FIGURES.

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THE production of Works specially devoted to Engineering is, in this country, frequently attended with difficulty, not arising from the scarcity of subject-matter or the disinclination of practical men to facilitate its arrangement, but from their inability to find time to render their willing aid. Delay, as in the instance of the present work, is in consequence unavoidable. A publisher's risk is increased in no trifling degree, when he ventures upon publications of a scientific character unaided by an author or editor of experience in the matters of which they treat; but it is his duty to select such useful and novel subjects as shall not only be of practical help to the engineer, but afford a clear view of elementary principles to the student; and as there are now amateurs in Engineering as well as in other departments of art, such works are peculiarly acceptable.

Keeping this twofold object steadily before me, it has been my constant endeavour for many years to render works of practical reference as complete as possible, especially by an adequate number of engraved illustrations of examples; and it is with grateful feelings that I acknowledge the liberality of many gentlemen, whose names appear as contributors of drawings in my numerous published works, some few of which are here mentioned, together with an account of their sales: viz.—Tredgold on the Steam Engine, 2300 copies since October, 1838; Public Works of Great Britain, 975 copies within the same period; Papers of the Royal Engineers, 1000 copies of each of the vo-