A PRACTICAL TREATISE ON THE CONSTRUCTION AND FORMATION OF RAILWAYS, CONTAINING THE MOST APPROVED SYSTEM OF EXCAVATING, HAULAGE, EMBANKING, PERMANENT WAYLAYING, ETC.

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A Practical Treatise on the Construction and Formation of Railways, Containing the Most Approved System of Excavating, Haulage, Embanking, Permanent Waylaying, etc. by Jas. Day

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JAS. DAY

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A PRACTICAL TREATISE

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RAILWAYS,

CONTAINING

THE MOST APPROVED SYSTEMS OF

EXCAVATING, HAULAGE, EMBANKING, PERMANENT WAYLAYING, &c. &c.

ALSO, THE METHOD OF ESTIMATING

THE GROSS LOAD AND USEFUL EFFECT PROBUCED BY MECHANICAL OR OTHER MOTIVE POWER UPON & LEVEL, AND UPON ANY INCLINATION;

ILLOSTRATED WITH

DIAGRAMS AND ORIGINAL USEFUL TABLES.

TO WHICE IS ADDED,

COMPREHENSIVE EARTHWORK TABLES.

BY JAS. DAY,

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AUTHOR OF THE HALLWAT CALCULATOR, OR ENGINEERS' AND CONTRACTORS' ASSISTANT, &C. &C.

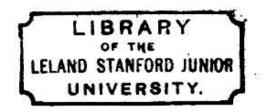
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PREFACE.

THE object of this Work is to give a practical exposition of that now popular and all-important subject, RAILWAYS, a medium of internal communication which has been brought so rapidly forward to its present comparative state of perfection by the united efforts of the British nation.

The Work has been arranged in the following order: — INTERNAL COMMUNICATION, GRADIENTS, EXCAVATING, HAULAGE, EMBANKING, BRIDGES AND CULVERTS, FENCING, PERMANENT WAYLAYING, and EARTHWORK TABLES, each subject forming a chapter of itself. The Author has thus endeavoured to treat separately of the several kinds of works, their nature, material, stages, processes, &c. &c., in order to render each subject distinct, clear, and comprehensive.

The Tables, it is hoped, will be of great utility, not only as a medium of general reference, but also of abridging tedious calculations. It was deemed advisable to give copious examples illustrating their