

**A TREATISE ON RAILWAY SURVEYING
AND LEVELLING. IN WHICH THE AUTHOR
HAS ENDEAVOURED TO SIMPLIFY THE
MOST APPROVED METHODS NOW
ADOPTED BY SURVEYORS**

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A treatise on railway surveying and levelling. In which the author has endeavoured to simplify the most approved methods now adopted by surveyors by John Quedsted

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JOHN QUESTED

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BY SURVEYORS.

BY
JOHN QUESTED.

SURVEYOR; AUTHOR OF THE "ART OF THE SURVEYING."

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INTRODUCTION.

THE great change which has taken place in the means of communication from town to town in this country, and in fact in almost every civilized nation,—the neatly appointed “Four-in-hand” having given way to the “Locomotive,” and the *flinty* genius of Mc Adam having fallen before the *iron* power of steam,—the “Trustees of the turnpike roads” being metamorphosed into “Railway Directors,”—the stupendous projects springing from this great change have, among other effects, given impetus to a profession which, since the completion of the Parochial and Tithe surveys, was on the wane. In plain words,—The increasing number of railroad undertakings having given rise to an unprecedented demand for practical surveyors, has caused many young persons to embrace that pro-

fession, who were balancing within their own minds to what pursuit to turn their attention.

Many who wish to do so, may not have the means within their power of gaining instruction from practical men; and almost all the works on surveying which give a theoretical knowledge of this art to the extent required by Railway surveyors, are elaborate, and so mixed up with other subjects, that the pupil, on opening the book, is startled at the vast quantity of matter he must wade through, in order to acquire that instruction he wishes. I do not presume in making this statement to depreciate in the least the merits of the works; far from it. I acknowledge the talent with which they are written, and feel grateful to the authors for all the theoretical knowledge I have obtained. But I am desirous, if possible, of clearing the road a little, by avoiding extraneous matter, and confining myself more to practical work, such as the Tyro would actually meet in the field, to render the pursuit more interesting, and at the same time to enable him to arrive sooner at the point he wishes to attain. I am in some measure induced to hope this object may be accomplished, by the success which has attended

my little work on Land Surveying,* as applicable to the necessities of farmers, &c., in which my endeavour was to simplify and make plain to the dullest comprehension that which had hitherto appeared abstruse and difficult. It is not my intention to commence these few pages with the first principles of Land Surveying; I will presume that the learner is already acquainted with them,—if not, a little application and attention to some of the works extant will soon enable him to comprehend them. After a few examples in Trigonometry, I purpose at once, either designing a line, or taking up a portion of one which it has fallen to my lot to survey, so as to follow the field book, and explain each particular as it occurs.

* "The art of Land Surveying" explained by short and easy rules; particularly adapted for the use of schools, and so arranged as to be useful to farmers, stewards, and others.—By JOHN QUESTED.—*Second Edition*.—Relife and Fletcher, Cloak Lane, London. 3s.

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