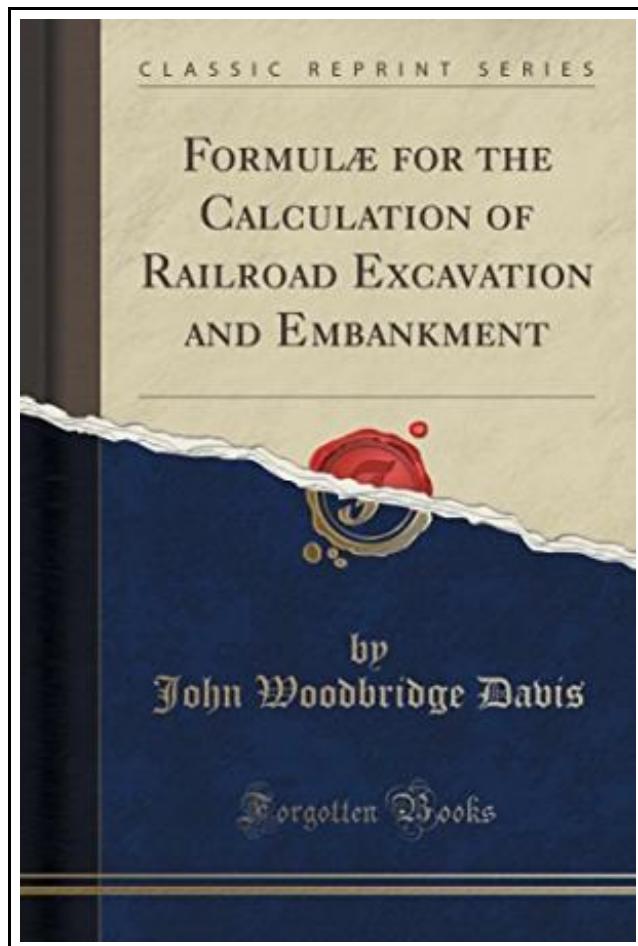


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Formulae for the Calculation of Railroad Excavation and Embankment The method of calculating earthwork discussed in this volume originated with the necessities for expedition and accuracy, while the author was engaged in making extensive computations of this kind, and from actual study of the ground and the manner in which irregularities extend from one cross-section to another, made with the express purpose of obtaining general and accurate formulae for all shapes that occur in the engineer's practice. Thus the several portions forming the entire plan, which the author now considers complete, were gradually developed in about the order in which they appear. Although it was necessary to consult many works on mensuration and civil-engineering in order to be assured of the novelty of some of the devices, and to curtail the description of others commonly known, direct use has been made of two only. The formula of Henck for correcting the calculation of earthwork on curves has been adopted; and in the note at the end of this treatise the hint has been taken from Professor Gillespie of applying integral calculus to railroad volumes, though this would seem a natural use of that department of mathematics. In both instances, the source and value of the aid is thankfully acknowledged. In the formula for the area of the mere ordinary cross-section there could not be much originality. The rate of slope has been included, and the values that vary from section to section reduced to two. Also the plan of combining consecutive volumes of equal length in series is one of the first that present themselves to calculators. Beyond this each topic is presented as...

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