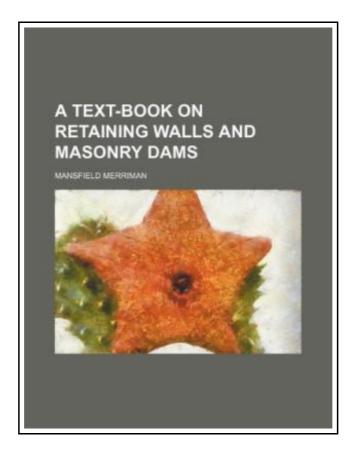
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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1892 Excerpt: .direction cuts the base. Let R be the resultant of P and V acting at some point T on the base. Let s represent the distance BSlt and t the distance CT. Let the point T be taken as a centre of moments, and let the lever-arm of P with and n will be known as soon as / is found. To do this the value of / is expressed in terms of /, thus: reference to it be p. The lever-arm of V is b--s--t, and that of R is zero. Then the equation of moments is Pp = V(b-s-t), (46) which is the fundamental formula for the investigation of retaining walls. This may be written Pp=Vb-Vs-Vt, (47) which is sometimes a more convenient form for use, since Vb and Vs can be treated like single quantities. To investigate a wall, the factor of security n is to be determined. From formula (45), In this formula V is the weight of one unit in length of the wall, or, for a trapezoid, V=frMa + S), (51) and Vs is the moment of that weight with respect to the inner edge B of the base. By considering the trapezoid ABCD as the difference between the rectangle AaCc and the two triangles AaB and CcD, this is found, by the help of the principles of statics, to be Vs = vh(c? + ab + F-(za + b)h cot 6), . (52) and, dividing by V, the distance...



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