



Graphical Determinations of Earth Slope, Retaining Walls and Dams

By Charles Prelini

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. The author states that this book is intended for students and not for professional engineers, but the subject treated is one of deep interest to civil engineers as well. The stability of earth slopes is considered, in the first chapter, on the basis of the angle of natural slope due to the internal friction of the material, and also by including with the friction the cohesion of the soil which is found to exist in old well settled banks. The subject is treated both graphically and analytically. The slope of equal stability as affected by height of bank when cohesion is considered is then constructed, bringing out the steep top and flat bottom, which is characteristic of the natural earth slope. Comparisons are then made of the amounts of excavation per lin. ft. for a 50-ft. cut taken out to different uniform slopes, with those obtained for corresponding slopes of equal stability or equal safety and the saving in excavation shown. The pressure of earth against retaining walls is taken up graphically in Chapter II., using the method...

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