Canal Design and Construction

By V.K. Bairathi

New India Publishing Agency, 2012. Hardcover. Book Condition: New. This book is an outcome of a large experience of many engineers on various different site conditions. Many actual cases have been sited. It deals with all the practical aspects of an economic section for various discharges, topographic and soil conditions. The canal design involves deep knowledge of following disciplines. Hydraulic of flow, Mechanics of bed erosion and sediment transport, Geotechnical engineering: Soil and Rock mechanics, stability of inner and outer slopes, including that of foundation, Mechanics of ground water flow, seepage and drainage characteristics of soil and ground, Tunnelling, Structural Engineering and construction techniques There are following Parameters of a Channel Design, i. Discharge, Q ii. Rugosity coefficient, N iii. Longitudinal slope, S iv. Side slope Z (horizontal : 1 vertical) v. Bed width, B vi. Depth, D or b/d ratio, X and vii. Velocity, V Lastly this volume is very friendly to field engineers and helps to avoid mistakes. It is written in such a way that the field engineers can use the relevant part directly. The book is also very useful to engineering students to enable them to clearly understand the hydraulics and economics of canal sections, and...

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