

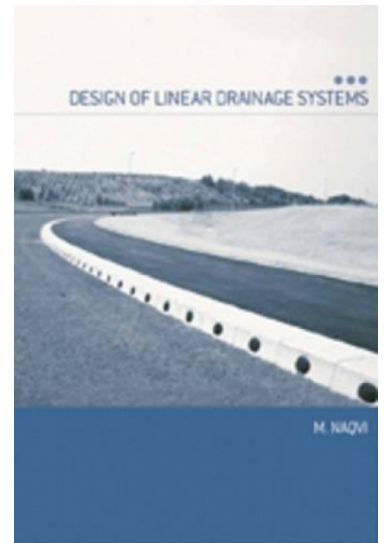
Design of Linear Drainage Systems

Matin Naqvi

About the Book

This book guides the reader through the hydraulic design of drainage channels in which the volume of flow increases linearly from one end of the channel to the other. This situation is very common in roof gutters and highway drainage channels, both of which receive water from the adjoining surfaces at an almost uniform rate.

Design of Linear Drainage Systems begins with an introduction of the basic hydraulic parameters, covering topics required in channel flow theory. It then progresses to explain a procedure for answering the fundamental design requirement of finding the length of a drainage channel or the outlet spacing, and the capacity of a channel with specified cross-sectional dimensions. Any problem areas, such as the location of the control section, which need to be considered during the course of development of the procedure have been highlighted. The equations presented are followed by practical examples. The book concludes with a chapter on the design of an urban highway drainage scheme using the varied-flow theory.



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