



Open Channel Hydraulics

Richard H. French

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This book is a text for graduate or undergraduate students in civil and agricultural engineering and hydrologic science and an excellent source for fundamental principles of open channel hydraulics. From the Table of Contents: Chapter 1 explains the types of flow encountered in open channels are classified with respect to time, space, viscosity, density, and gravity. Chapter 2 discusses the application of the law of conservation of energy to open-channel flows. Chapter 3 considers the application of the law of conservation of momentum to open-channel flow. Chapter 4 defines uniform flow and develops the Chezy and Manning equations for uniform flow. Both theoretical and applied methods of estimating the resistance coefficients used in these equations are then discussed. Chapter 5 primarily emphasizes techniques of computing the normal depth of flow in open channels. Chapter 6 considers the theory and analysis of gradually and spatially varied flow. In Chapter 7, the design of lined, unlined, and grass-lined channels is considered, and design procedures for each type of channel are discussed and demonstrated. The transport processes known as turbulent diffusion and dispersion are discussed in Chapter 8. Chapter 9 treats the subject of gradually varied unsteady flow. Chapter 10 discusses the design, construction, and use of physical models to examine open-channel flow phenomena.

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