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This book has been purposefully suited for students of civil engineering and computational hydraulics at the graduate and undergraduate levels as well as professionals in the field of basic fluid mechanics and hydraulic engineering, i.e. for the civil engineers and builders. However, this book can also be chosen by all those who would like to independently pursue the area of computational hydraulics. The topics have been presented clearly and completely, enough to develop an in-depth understanding. To enhance the learning and grasping process liberal use of photos, computer programs, line drawings and examples have been made. While the basic fluid mechanics topics have been retained to provide continuity in the development of certain areas, such as open channel flow and flow in closed conduits, the reader will be able to use it in modern engineering practice with emphasis on fundamental principles and presentation of updated analytical procedures for solving problems. This book is based on notes successfully used over several years in the study course of hydraulic engineering at Washington State University. The material has been tested with feedback from experienced professionals of this field.

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Pipeline systems range from very simple ones to very large and quite complex ones. They may be as uncomplicated as a single pipe conveying water from one reservoir to another or they may be as elaborate as an interconnected set of water distribution networks for a major metropolitan area. Individual pipelines may contain any of several kinds of pumps at one end or an interior point; they may deliver water to or from storage tanks. So how do these systems work? What principles are involved, and how are the systems successfully analyzed and understood? You can find the answers in this book. By reading it you will be able to solve problems relating to flow through pipelines, flow between reservoirs, and the estimation of pipe friction factors. This guide will give you the basic theory and illustrate it through worked examples. You can then further cement that understanding by working through a series of self-study questions. By the end, you can apply the Continuity equation, Energy / Bernoulli equation, and the equations for estimating energy loss such as Darcy-Weisbach and Colebrook-White equations to solve a wide variety of engineering problems.

This text provides comprehensive treatment of hydraulic engineering in both closed conduit and open channel flow and a clear presentation, with more examples and problems than most competitors. The carefully organized coverage, beginning with basics of hydrology, pipelines, and open channels. Also includes both hydrologic background and traditional hydraulics. A good balance of theory and applications and extensive appendices, including selected computer programs, round out the text.

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