



Open Channel Hydraulics

By 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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Editorial Review

About the Author

Richard H. French received his B.S.C.E. and M.S. in Civil Engineering from the Ohio State University and continued his graduate studies at the University of California, Berkeley. While at the University of California he was the recipient of the Boris A. Bakhmeteff Research Fellowship from Columbia University in 1973-74. After receiving his Ph.D. from the University of California in 1975, he was appointed Assistant Professor of Environmental and Water Resources Engineering at Vanderbilt University. In 1979, he was invited to join the Faculty of Water Resources Center (subsequently the Division of Hydrologic Sciences), Desert Research Institute, a component of the Higher Education System of Nevada. Over the next 25 years he performed hydrologic and hydraulic engineering research in both Las Vegas and Reno, NV and a member of the Graduate Faculty at both University of Nevada, Las Vegas and Reno campuses. In 2004, French retired from the Desert Research Institute and was promoted to Research Professor Emeritus. In January 2005, he was appointed Professor of Civil and Environmental Engineering at the University of Texas at San Antonio. Dr. French received the American Society of Civil Engineers Arid Lands Hydraulic Engineering Award in 1991, the Desert Research Institute's Dandini Medal of Science in 1996, and the Outstanding Civil Engineering Alumni Award from the Ohio State University Civil Engineering Alumni Association in 2004. He was also a founding member of the American Society of Civil Engineers Environmental and Water Resources Institute and one of the original Diplomates of the American Academy of Water Resources. Dr. French is a registered Professional Engineer in Nevada, California, and Arizona. He is a member of the American Society of Civil Engineers and the International Association of Hydraulic Engineering and Research. His previous works as an editor or author include Salinity in Watercourses and Reservoirs, Open-Channel Hydraulics (1st edition), Hydraulic Processes on Alluvial Fans, Proceedings of the International Symposium on the Hydraulics/Hydrology of Arid Lands, and chapters in several engineering handbooks.

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