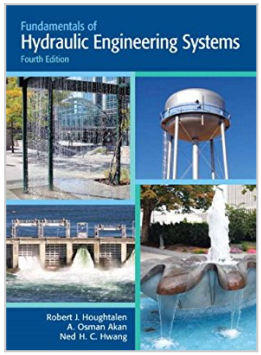

Fundamentals of Hydraulic Engineering Systems (4th Edition)

By Robert J. Houghtalen, A. Osman H. Akan, Ned H. C. Hwang

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Fundamentals of Hydraulic Engineering Systems, Fourth Edition is a very useful reference for practicing engineers who want to review basic principles and their applications in hydraulic engineering systems. This fundamental treatment of engineering hydraulics balances theory with practical design solutions to common engineering problems. The author examines the most common topics in hydraulics, including hydrostatics, pipe flow, pipelines, pipe networks, pumps, open channel flow, hydraulic structures, water measurement devices, and hydraulic similitude and model studies. Chapters dedicated to groundwater, deterministic hydrology, and statistical hydrology make this text ideal for courses designed to cover hydraulics and hydrology in one semester.

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Editorial Review

From the Publisher
Designed to bridge the gap between basic principles and the techniques applied to the design and analysis of hydraulic engineering systems. This text exposes students to many problems commonly encountered in practice, various solution scenarios (e.g., design formulas, tables, and computer software) that are written by one of the largest commercial vendors of hydrology and hydraulics software.

From the Back Cover
KEY BENEFIT: Offering a balanced treatment of both theory and practical design solutions, this book examines the fundamental concepts of engineering hydraulics.**KEY TOPICS**: Fundamentals Properties of Water; Water Pressure and Pressure Forces; Water Flow in Pipes; Pipelines and Pipe Networks; Water Pumps; Water Flow in Open Channels; Ground Water Hydraulics; Hydraulic Structures; Water Measurements; Hydraulic Similitude and Model Studies; Hydrology for Design; Graphical Flow Nets: Electric Analog and Numerical Analysis; Solution Charts (Nomographs); Symbols.**MARKET**: A very useful reference for practicing engineers who want to review basic principles and their applications in hydraulic engineering systems.

About the Author

Robert J. Houghtalen, Ph.D., P.E., is Professor and Head of the Civil Engineering Department at Rose-Hulman Institute of Technology in Terre Haute, Indiana. Dr. Houghtalen specializes in the areas of hydrology, hydraulics, and stormwater management. He has taught national seminars for ASCE on a number of computer models including HEC-HMS, HEC-RAS, and EPA-SWMM. Apart from his academic assignments at Rose-Hulman and Old Dominion University, he has worked for the U.S. Army Corps of Engineers, Wright Water Engineers, Inc. (Denver), the Federal Emergency Management Agency in Washington D.C., and a humanitarian organization in the Sudan. He is co-author of the Federal Highway Administration's culvert design manual (HDS #5). Prior to this textbook, he has co-authored two others: *Fundamentals of Hydraulic Engineering Systems, 3Ed.* (1996 - Prentice Hall) and *Urban Hydrology, Hydraulics, and Stormwater Quality* (Wiley).

Prof. Ned H C Hwang received his BSCE from Cheng-kung University in Taiwan, MSCE from UC Berkeley, and PhD in fluid mechanics from Colorado State University. He served as a faculty in Civil Engineering, University of Houston for 25 years. In early 1980s, he developed interests in the flow of blood in cardiovascular systems. He was appointed the Herbert H Herff Chair Professor of Biomedical Engineering, University of Memphis, TN.; 1991-2000, the James L Knight Chair Professor of Biomedical Engineering, University of Miami, Coral Gables, FL; Since 2000, he was appointed the Director of Biomedical Engineering Division, the National Health Research Institutes, Taiwan until his retirement in 2007. During his tenure, his also served four times as the Director of the NATO-ASI (Advanced Study Institutes) in Cardiovascular Engineering; Honorary Professor of Biomedical Engineering at the King's College Medical School, University of London; the Technion, Haifa, Isreal;
First Nanyang Chair Professor, the Nanyang University of Science and Technology, Singapore; the West China Medical University, Chengdu, China; etc. Professor Hwang has published four books in cardiovascular engineering, and holds five US patents. He is also a founding fellow of AIBME; fellow of ASME.

A. Osman Akan holds a B.S. degree in Civil Engineering from Middle East Technical University, Ankara, Turkey, and M.S. and PhD degrees in Civil Engineering from the University of Illinois, Urbana-Champaign. He has over 30 years of teaching, research, and consulting experience in water resources engineering. His research is documented in 35 journal articles, and numerous conference papers, reports, and book chapters. He received an outstanding journal paper award from the American Society of Civil Engineers (ASCE) in 1987. He published three earlier books titled, “Urban Hydrology,” “Urban Hydrology, Hydraulics, and Stormwater Quality, “and “Open Channel Hydraulics.” Professor Akan is an ASCE Fellow and a registered Professional Engineer (PE) in the Commonwealth of Virginia. Currently he serves as Associate Dean in the Batten College of Engineering and Technology at Old Dominion University, Norfolk, Virginia.

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