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Dr. Chin is a graduate of the California Institute of Technology and the Georgia Institute of Technology. He has held positions in hydropower engineering with Harza Engineering Company in Chicago and is a recipient of the prestigious Collingwood Prize awarded by the American Society of Civil Engineers. Dr.

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**WATER-RESOURCES ENGINEERING - DPHU**

Review of Water-Resources Engineering. by David A. Chin, Fourth Edition. Pearson, Hoboken, New Jersey; 2020; ISBN 9780135357705; 1262 pp.; \$80.0. Seyed M. Hajimirzaie, Ph.D., P.E., P.H., M.ASCE. Lead Engineer, Operational Hydraulics Unit, Hydrology and Hydraulics. (H&H) Bureau, South Florida Water Management District, 3301 Gun Club.

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Water-Resources Engineering provides comprehensive coverage of hydraulics, hydrology, and water-resources planning and management. Presented from first principles, the material is rigorous, relevant to the practice of water resources engineering, and reinforced by detailed presentations of design applications.

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"Water-Resources Engineering, by David A. Chin, provides students with a complete picture of water-resources engineering by integrating the fundamental concepts of fluid mechanics, hydraulics, hydrology, and containment transport processes. The material in the text is presented from first principles, is rigorous, is relevant to the practice of water-resources engineering, and is reinforced by detailed presentations of design applications."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved

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"Water resources engineers design systems to control the quantity, quality, timing, and distribution of water to support human habitation and the needs of the environment. Water supply and flood control systems are commonly regarded as essential infrastructure for developed areas, and as such water resources engineering is a core specialty area in civil engineering. Water resources engineering is also a specialty area in environmental engineering, particularly with regard to the design of water-supply systems, wastewater-collection systems, and water quality control in natural systems. Overview of book contents. The technical and scientific bases for most water resources applications are in the areas of hydraulics and hydrology, and this text covers these areas with depth and rigor. The fundamentals of closed-conduit open channel surface water hydrology, groundwater hydrology, and water resources planning and management are all covered in detail. Applications of these fundamentals include the design of water distribution systems, hydraulic structures, sanitary sewer systems, stormwater management systems, and water supply well fields. The design protocols for these systems are guided by the relevant ASCE, WEF, and AWWA manuals of practice, as well as USFHWA design guidelines for urban and transportation related drainage structures, and USACE design guidelines for hydraulic structures. The topics covered in this book constitute the technical background expected of water-resources engineers. This text is appropriate for undergraduate and first year graduate courses in hydraulics, hydrology, and water resources engineering. Practitioners will also find the material in this book to be a useful reference on appropriate design protocols"--

Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to reinforce important concepts. Additional end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers.

This print textbook is available for students to rent for their classes. The Pearson print rental program provides students with affordable access to learning materials, so they come to class ready to succeed. Rigorous, in-depth coverage of the fundamentals of water-resources engineering. Water-Resources Engineering sequentially covers the theory and design applications in each of the key areas of water-resources engineering, including hydraulics, hydrology, and water-resources planning and management. It provides students with a firm understanding of the depth and breadth of the technical areas that are fundamental to their discipline, thus encouraging them to be more innovative, view water-resource systems holistically, and be technically prepared for a lifetime of learning. Presented from first principles, the text is rigorous and reinforced by detailed presentations of design applications. The 4th Edition reflects the state-of-the-art of water-resources engineering, with updated and new material throughout. This title is also available digitally as a standalone Pearson eText. Contact your Pearson rep for more information.

This book features expert contributions on key sustainability aspects of urban water management in Chinese agglomerations. Both technical and institutional pathways to sustainable urban water management are developed on the basis of a broad, interdisciplinary problem analysis.

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