



Hydraulic Structures

By Sheng-Hong Chen

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Hydraulic Structures By Sheng-Hong Chen

This book discusses in detail the planning, design, construction and management of hydraulic structures, covering dams, spillways, tunnels, cut slopes, sluices, water intake and measuring works, ship locks and lifts, as well as fish ways. Particular attention is paid to considerations concerning the environment, hydrology, geology and materials etc. in the planning and design of hydraulic projects. It also considers the type selection, profile configuration, stress/stability calibration and engineering countermeasures, flood releasing arrangements and scouring protection, operation and maintenance etc. for a variety of specific hydraulic structures.

The book is primarily intended for engineers, undergraduate and graduate students in the field of civil and hydraulic engineering who are faced with the challenges of extending our understanding of hydraulic structures ranging from traditional to groundbreaking, as well as designing, constructing and managing safe, durable hydraulic structures that are economical and environmentally friendly.

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Editorial Review

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About the Author

Dr. Sheng-Hong Chen has studied hydraulic engineering for 40 years since he was a undergraduate student. He has been working in several professional affiliations such as International Committee of Large Dam, Chinese Society of Rock Mechanics and Engineering, Chinese Water Conservancy Society and Chinese Hydro-electrical Power Engineering Society. He has published nearly 200 paper and research works on Dam engineering, Slope engineering and Tunnels and underground caverns. Dr. Chen is now working at Wuhan University, Wuhan, China.

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