

## Hydraulic Gates And Valves In Surface Flow And Submerged Outlets

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Hydraulic Gates and Valves. : Jack Lewin. Thomas Telford, 1995 - Hydraulic engineering - 238 pages. 1 Review. This book is a major reference work on gates and valves that find application in...

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Hydraulic gates and valves in Free Surface Flow and Submerged Outlets, Second Edition. Based on the author's extensive practical experience, this new edition will act as a definitive reference work on gates and valves. Hydraulic gates and valves in free surface flow and submerged outlets: 2nd edition will provide you with a comprehensive overview of the subject and clearly describes the principle options available to engineers and designers and outlines the main advantages and disadvantages ...

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*Hydraulic gates and valves*

Hydraulic Gate Valves. Gate valves are used when a straight-line flow of fluid and minimum flow restriction are needed. Gate valves are so-named because the part that either stops or allows flow through the valve acts somewhat like a gate. The gate is usually wedge-shaped. When the valve is wide open the gate is fully drawn up into the valve bonnet.

*Hydraulic Gate Valves | Hydraulic Valve*

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Ryszard Daniel, Tim Paulus, in Lock Gates and Other Closures in Hydraulic Projects, 2019. Abstract. Hydraulic gates are structures the design of which is highly dominated by the carried loading. Two basic questions need to be answered when approaching that design: Which loads and other actions the gate will be exposed to during its life? Which performance parameters of sustaining these loads and actions are acceptable? This chapter gives answers to these questions based on the current European ...

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Suitable for engineers and designers, this work outlines the main advantages and disadvantages of hydraulic gates and valves, highlighting potential problems in their use. It includes information about the various types of water-operated automatic gates, rolling weir gates, fuse gates and barrier gates and their details.

Based on the author's extensive practical experience, this new edition will act as a definitive reference work on gates and valves. Hydraulic gates and valves in free surface flow and submerged outlets: 2nd edition will provide you with a comprehensive overview of the subject and clearly describes the principle options available to engineers and designers and outlines the main advantages and disadvantages of all hydraulic gates and valves, highlighting potential problems in their use. This fully revised edition includes: Information about new types of water-operated automatic gates, rolling weir gates, fuse gates and an extended part on barrier gates and their details The sections on seals, the trunnions of radial gates, ice formation, gate operation and structural design have all been expanded New sections on hazard and reliability of gates, earthquake effects on gates and operating machinery, environmental impact and aesthetics, as well as maintenance An appendix on the calculation of hydrostatic loads on radial gates has been set out Hydraulic gates and valves in free surface flow and submerged outlets: 2nd edition will be of great benefit to engineers who work or design project

Lock Gates and Other Closures in Hydraulic Projects shares the authors practical experience in design, engineering, management and other relevant aspects with regard to hydraulic gate projects. This valuable reference on the design, construction, operation and maintenance of navigation lock gates, movable closures of weirs, flood barriers, and gates for harbor and shipyard docks provides systematic coverage on all structural types of hydraulic gates, the selection of gate types, and their advantages and disadvantages. The discussion includes the latest views in new domains, such as environmental impact of hydraulic gate projects, sustainability assessments, relation with the issues of global climate change, handling accidents and calamities, and the bases of asset management. Heavily illustrated, this reference provides a generous amount of case studies based on the author's own and their colleagues' experiences from recent projects in Europe, America and other continents. Presents extensive coverage of the operational profiles of hydraulic closures, including gates in navigation locks, movable closures on river weirs, closures of flood barriers, spillway closures and valves, and more Outlines the different structural types of hydraulic gates, including miter gates, vertical lift gates, flap and hinged crest gates, radial gates, rolling and barge gates, sector gates and many other Clearly outlines the selection process for gates for navigation locks, river weirs, flood barriers, hydroelectric plants, shipyard docks and other hydraulic structures Provides comprehensive discussion of design loads and other actions to which hydraulic gates may be subjected during their service life, followed by an overview of analysis methods and tools Addresses the newest challenges and concerns in hydraulic gate projects, such as environmental impact of hydraulic gate projects, risk-based design, sustainability issues, handling accidents and calamities, and gate maintenance in view of asset management Presents the experiences from many recent projects in Europe and America, including the rolling gates in large European sea locks, gates in the Panama Canal new locks, flood barriers in New Orleans and the Netherlands

Hydraulic gates are utilized in multiple capacities in modern society. As such, the failure of these gates can have disastrous consequences, and it is imperative to develop new methods to avoid these occurrences. *Dynamic Stability of Hydraulic Gates and Engineering for Flood Prevention* is a critical reference source containing scholarly research on engineering techniques and mechanisms to decrease the failure rate of hydraulic gates. Including a range of perspectives on topics such as fluid dynamics, vibration mechanisms, and flow stability, this book is ideally designed for researchers, academics, engineers, graduate students, and practitioners interested in the study of hydraulic gate structure.

Revised and updated, this second edition of *Design of Hydraulic Gates* maintains the same goal as the original: to be used as a textbook and a manual of design of gates, presenting the main aspects of design, manufacture, installation and operation of hydraulic gates, while introducing new products, technologies and calculation procedures. This edition included new chapters on intake gates and trashrack design, highlighting the aspects of safety, operational and maintenance procedures. To improve the strength against structural failure of intake trashracks, the author proposes a series of rigid calculation assumptions, design parameters and manufacturing procedures, which will certainly result in safer trashracks. Some 340 drawings and photographs, 82 tables, 107 references and 23 worked examples help the reader to understand the basic concepts and calculation methods presented.

Based on the author's extensive expertise and experience as an engineer of hydromechanical projects, this book describes the principal aspects of the design, manufacture, installation and operation of hydraulic gates. Specific topics are analysed in depth, such as the selection of the gate type, the limits of their use, estimating their weight, operative forces, hoisting systems, design of structure and support elements, seals and hydrostatic and hydrodynamic forces. The use of recent technological advances, such as inflatable gates and fusegates is discussed. The book can be used as a text-book and manual for the design of gates. It features a number of worked examples, drawings and about 300 photographs to illustrate the concepts and methods involved, and covers several different types of gate and their support elements from a variety of applications.

India is endowed with varied topographical features, such as high mountains, extensive plateaus, and wide plains traversed by mighty rivers. Divided into four sections this book provides a comprehensive overview of water resources of India. A detailed treatment of all major river basins is provided. This is followed by a discussion on major uses of water in India. Finally, the closing chapters discuss views on water management policy for India.

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