



Design of Hydraulic Gates

Paulo C.F. Erbisti

2nd Edition

 **CRC Press**
Taylor & Francis Group
A BALKEMA BOOK

Design Of Hydraulic Gates 2nd Edition Bengalasonline

Emilie Sanchez



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Design of Hydraulic Gates, 2nd Edition Paulo C.F. Erbisti,2014-05-29 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 **Design of**

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Gates Gerhard Schmaußer,2003-11-14 **Hydraulic Gates and Valves** Jack Lewin,2001 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** Ryszard Daniel,Tim Paulus,2018-11-27 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

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