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Design of hydraulic gates - 2nd Edition Table of Contents Preface Acknowledgements 1 Introduction 1.1 History and development 1.2 Gate components 1.3 Main applications 1.4 Types and classifications 1.4.1 Purpose 1.4.2 Movement 1.4.3 Water passage 1.4.4 Gate leaf composition 1.4.5 Location

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Transitions are provided in hydraulic structures for economy and efficiency. This book covers all types of flow transitions: sub-critical to sub-critical, sub-critical to super-critical, super-critical to sub-critical with hydraulic jump, and super-critical to super-critical transitions. It begins with an introduction followed by characteristics of flow in different types of transitions and procedures for hydraulic design of transitions in different structures. Different types of appurtenances used to control flow separation and ensure uniform flow at exit of transition and diffusers are included. Examples of hydraulic design of a few typical hydraulic structures are given as well.

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

U.S. Army Corps of Engineers Technical Engineering and Design Guide No. 12 presents guidance for the hydraulic design of spillways for flood control or multipurpose dams.

Hydraulic engineering of dams and their appurtenant structures counts among the essential tasks to successfully design safe water-retaining reservoirs for hydroelectric power generation, flood retention, and irrigation and water supply demands. In view of climate change, especially dams and reservoirs, among other water infrastructure, will and have to play an even more important role than in the past as part of necessary mitigation and adaptation measures to satisfy vital needs in water supply, renewable energy and food worldwide as expressed in the Sustainable Development Goals of the United Nations. This book deals with the major hydraulic aspects of dam engineering considering recent developments in research and construction, namely overflow, conveyance and dissipations structures of spillways, river diversion facilities during construction, bottom and low-level outlets as well as intake structures. Furthermore, the book covers reservoir sedimentation, impulse waves and dambreak waves, which are relevant topics in view of sustainable and safe operation of reservoirs. The book is richly illustrated with photographs, highlighting the various appurtenant structures of dams addressed in the book chapters, as well as figures and diagrams showing important relations among the governing parameters of a certain phenomenon. An extensive literature review along with an updated bibliography complete this book.

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