



US Army Corps of Engineers Mobile District

# Design Manual

# **Usace Mobile District Design Manual**

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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 **Hydrodynamics and Water Quality** Zhen-Gang Ji, 2017-05-09 The primary reference for the modeling of hydrodynamics and water quality in rivers lake estuaries coastal waters and wetlands This comprehensive text perfectly illustrates the principles basic processes mathematical descriptions case studies and practical applications associated with surface waters It focuses on solving practical problems in rivers lakes estuaries coastal waters and wetlands Most of the theories and technical approaches presented within have been implemented in mathematical models and applied to solve practical problems Throughout the book case studies are presented to demonstrate how the basic theories and technical approaches are implemented into models and how these models are applied to solve practical environmental water resources problems This new edition of Hydrodynamics and Water Quality Modeling Rivers Lakes and Estuaries has been updated with more than 40% new information It features several new chapters including one devoted to shallow water processes in wetlands as well as another focused on extreme value theory and environmental risk analysis It is also supplemented with a new website that provides files needed for sample applications such as source codes executable codes input files output files model manuals reports technical notes and utility programs This new edition of the book Includes more than 120 new updated figures and 450 references Covers state of the art hydrodynamics sediment transport toxics fate and transport and water quality in surface waters Provides essential and updated information on mathematical models Focuses on how to solve practical problems in surface waters presenting basic theories and technical approaches so that mathematical models can be understood and applied to simulate processes in surface waters Hailed as a great addition to any university library by the Journal of the American Water Resources Association July 2009 Hydrodynamics and Water Quality Second Edition is an essential reference for practicing engineers scientists and water resource managers worldwide World Dredging, Mining & Construction ,1992 **Proceedings** ,1999 Proceedings of the Fifth Federal Interagency Sedimentation Conference, 1991 Shou-shan Fan, Yung-Huang Kuo.1991 **Engineer Update** ,1983 Government Reports Annual Index ,1993 Sections 1 2 Keyword Index Section

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