

# STEEL CONSTRUCTION



## MANUAL

AMERICAN INSTITUTE  
OF  
STEEL CONSTRUCTION

FOURTEENTH EDITION

# Aisc Steel Manual Combined Code 14th

**Richard M. Barker, Jay A. Puckett**



## **Aisc Steel Manual Combined Code 14th:**

**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

*Soil Mechanics and Geotechnical Engineering* D.L. Shah, A.V. Shroff, 2003-01-01 Dealing with the fundamentals and general principles of soil mechanics and geotechnical engineering this text also examines the design methodology of shallow deep foundations including machine foundations In addition to this the volume explores earthen embankments and retaining structures including an investigation into ground improvement techniques such as geotextiles reinforced earth and more

*Design of Wood Structures-ASD/LRFD* Donald E. Breyer, Kenneth J. Fridley, David G. Pollock, Kelly Cobeon, 2014-09-05 THE DEFINITIVE WOOD STRUCTURE DESIGN GUIDE FULLY UPDATED Thoroughly revised to incorporate the latest codes and standards the seventh edition of this comprehensive resource leads you through the complete design of a wood structure following the same sequence of materials and elements used in actual design Detailed equations clear illustrations and practical design examples are featured throughout the text THIS NEW EDITION Conforms to the 2012 International Building Code IBC Addresses the new 2012 National Design Specification for Wood Construction NDS Contains dual format Allowable

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 Puckett, 2013-02-04 Up to date coverage of bridge design and analysis revised to reflect the fifth edition of the AASHTO  
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**continued. Soils and foundations** ,1973     *San Fernando, California, Earthquake of February 9, 1971* Environmental  
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 Highway Bridges provides a complete introduction to this important area of engineering with comprehensive coverage of the  
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