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Flood Scour for Bridges and Highways: Prevention and Control of Soil Erosion (Hardback)

By Mohiuddin Ali Khan

McGraw-Hill Education - Europe, United States, 2015.
 Hardback. Book Condition: New. 236 x 191 mm. Language: English . Brand New Book. Proven methods for preventing and mitigating bridge and highway flood scour Offering detailed guidelines on bridge scour countermeasures, this comprehensive resource provides a proactive strategy for the design and construction of bridges to prevent scour, as well as a reactive plan for post-flood disaster management. Topics discussed include erosion, causes of scour, AASHTO design codes, hydrology, hydraulics, scour analysis, inspection methods, and modern materials technology. Real-world case studies illustrate the concepts presented. The authoritative information in this practical guide will help you to develop more efficient and cost-effective design processes and bridge management systems for river bridges subjected to floods. Flood Scour for Bridges and Highways covers: Floods, scour problems, and mitigation River instability caused by flow obstructions Past failures and bridges vulnerable to failure Geotechnical and hydraulic issues at scour-critical rivers and bridges Hydrology, floods, and scour-critical bridges Estimating scour depths and selecting applicable countermeasures Inspections, ratings, and monitoring countermeasures FHWA, HEC-18, and HEC-23 scour countermeasures as remediation Innovative methods of flood control and disaster management.

Reviews

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