



# Bridge and Highway Structure Rehabilitation and Repair

Mohiuddin Khan

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#### State-of-the-Art Bridge and Highway Rehabilitation and Repair Methods

This authoritative volume offers up-to-date guidance on the latest design techniques, repair methods, specialized software, materials, and advanced maintenance procedures for bridges and highway structures. Focusing on both traditional and nontraditional design issues, *Bridge and Highway Structure Rehabilitation and Repair* clarifies the most recent AASHTO bridge design codes and discusses new analytical and design methodologies, such as the application of load and resistance factor design (LRFD). A wealth of concise explanations, solved examples, and in-depth case studies are included in this comprehensive resource.

#### **COVERAGE INCLUDES:**

- Diagnostic design and selective reconstruction
- Bridge failure studies and safety engineering
- Analytical approach to fracture and failure
- Load and resistance factor rating (LRFR) and redesign
- Application of LRFD and LRFR methods
- Inspection and structural health monitoring
- Bridge widening and replacement strategies
- Conventional repair methods
- Advanced repair methods
- Concrete repair methods
- Extreme events of flood scour and countermeasures design
- Guidelines for seismic design and retrofit methods



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