



Bridge and Highway Structure Rehabilitation and Repair (Mechanical Engineering)

By Mohiuddin Khan

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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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About the Author

Dr. Mohiuddin A. Khan, Chief Bridge Engineer with JMT Inc., helped to develop the NJ State Bridge Design Manual. He is registered as a licensed professional engineer in five states and is a chartered engineer from England.

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