

Bridge Engineering, Third Edition (Mechanical Engineering)

By Jim J. Zhao, Demetrios E. Tonias

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The state of the art in highway bridge engineering

Fully updated with the latest codes and standards, including load and resistance factor design (LRFD), *Bridge Engineering*, Third Edition covers highway bridge planning, design, construction, maintenance, and rehabilitation. This thoroughly revised reference contains cutting-edge analytical, design, and construction practices, the most current information on new materials and methods, and proven, cost-effective maintenance and repair techniques. Real-world case studies and hundreds of helpful photos and illustrations are also included in this practical resource.

***BRIDGE ENGINEERING*, THIRD EDITION FEATURES COMPLETE COVERAGE OF:**

- Highway bridge structures
- Project inception
- Project funding
- Design standards
- Bridge inspection and site survey
- Physical testing
- As-built plans and other record data
- Superstructure types
- Deck types
- Wearing surface types
- Deck joint types
- Design loads
- Design methods
- Internal forces
- Load distribution
- Concrete deck slabs
- Composite steel members
- Plate girder design
- Continuous beams

- Protecting steel superstructures
- Load rating
- Prestressed concrete
- Substructure design
- Abutments
- Piers
- Bearings
- Managing the design process
- Contract documents
- Bridge management systems

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Editorial Review

About the Author

Jim J. Zhao, P.E., is Chief Bridge Engineer with Nolan Associates, Inc., where he is in charge of bridge design and overall project management. He is experienced in design, teaching, and research in structural engineering and serves on the ASCE-ACI joint committees on Concrete Bridge Design and on Prestressed Concrete Design. Mr. Zhao is also the president of the Structural Engineering Institute, ASCE Maryland Chapter. He is the author of two books on bridge design and one on risk management.

Demetrius Tonias, P.E., is an award-winning author of numerous works on civil and transportation engineering. As a member of the Adjunct Engineering Faculty of Union College, he taught a variety of courses, including Bridge and Highway Engineering, Infrastructure Management Systems, and refresher courses for the E.I.T. and PE professional licensing examinations. Mr. Tonias is an accomplished software developer with extensive experience in the development of civil engineering computer applications.

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