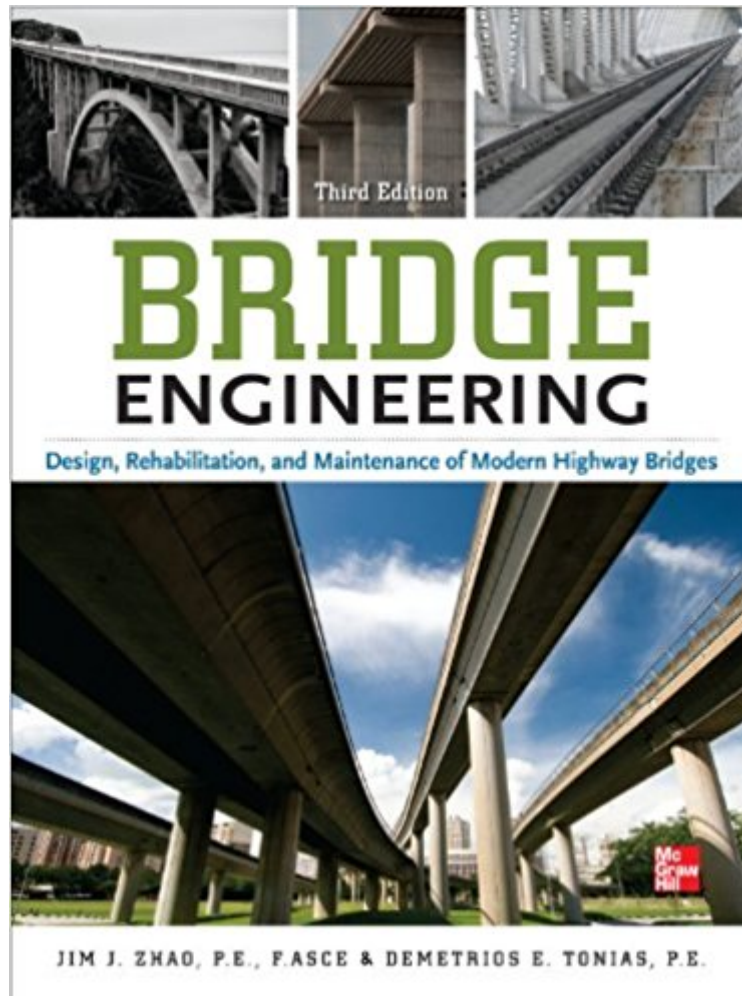




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# Bridge Engineering, Third Edition



## Synopsis

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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## Customer Reviews

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 Tonnias, 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. Tonnias is an accomplished software developer with extensive experience in the development of civil engineering computer applications.

Good book. Useful for very low experienced bridge engineer and very good material for any level of bridge professional inspector. Provide several issues from point of an experienced bridge engineer to the sight of reader to explain problems. Still some parts refer to the older version of AASHTO not the referred one in the book as the latest. Personally, I do not like their example presentation method, and also too many notes in the sidebars which just bold some part of the text in each page.

I am one year into my first job as a bridge inspector/designer. I bought this book to get a more knowledge about the bridge industry and I have to say so far this book is great. I am learning great vocabulary, history about the industry and common problems that arise when inspecting and designing a bridge. I bought the kindle version and I am 21% in. As a result of buying a kindle version, there are some minor shortcomings like the links that you click on a page; there are no return links. If you select a link that jumps 100 pages ahead, and you don't remember where you left off you're screwed. But anyhow, it is great!

Pretty Good.

It resumes with enough details the terms and concepts. I would recommend it for your library for a reference. It does not substitute for other specs design manuals but it well describes concepts for college students in bridge courses.

A very good and thorough textbook for anyone looking to increase their understanding of bridge engineering.

It is one of the best and comprehensive books in bridge engineering, not detailed on every thing but

covers majority of bridge aspects. The only thing is that paper and print quality is not good enough for the price.

Very good

very good book.

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