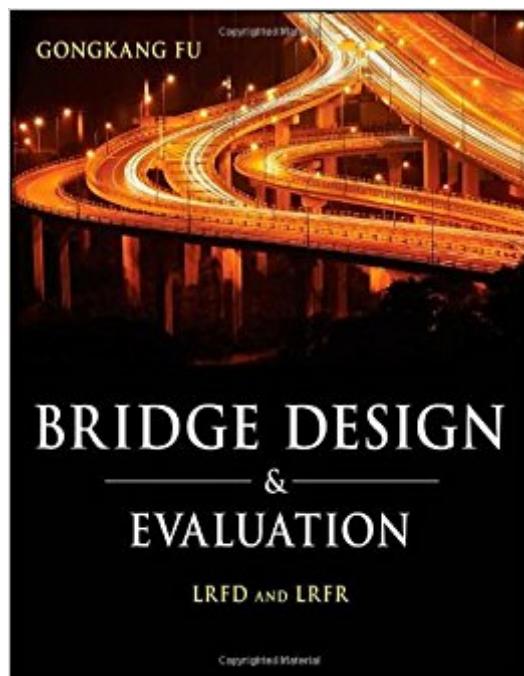


The book was found

# Bridge Design And Evaluation: LRFD And LRFR



## **Synopsis**

A succinct, real-world approach to complete bridge system design and evaluation Load and Resistance Factor Design (LRFD) and Load and Resistance Factor Rating (LRFR) are design and evaluation methods that have replaced or offered alternatives to other traditional methods as the new standards for designing and load-rating U.S. highway bridges. Bridge Design and Evaluation covers complete bridge systems (substructure and superstructure) in one succinct, manageable package. It presents real-world bridge examples demonstrating both their design and evaluation using LRFD and LRFR. Designed for a 3- to 4-credit undergraduate or graduate-level course, it presents the fundamentals of the topic without expanding needlessly into advanced or specialized topics. Important features include: Exclusive focus on LRFD and LRFR Hundreds of photographs and figures of real bridges to connect the theoretical with the practical Design and evaluation examples from real bridges including actual bridge plans and drawings and design methodologies Numerous exercise problems Specific design for a 3- to 4-credit course at the undergraduate or graduate level The only bridge engineering textbook to cover the important topics of bridge evaluation and rating Bridge Design and Evaluation is the most up-to-date and inclusive introduction available for students in civil engineering specializing in structural and transportation engineering.

## **Book Information**

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## **Customer Reviews**

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Professor of the Chinese Education Ministry at Tongji University, China. He was head of structures research with the New York State Department of Transportation (DOT) for seven years, and has worked on design and research projects for the FHWA and the California, Georgia, New York, Michigan, and Ohio DOTs. He is an active member of the American Society of Civil Engineers.

Being in this industry for 10 years, I would like to recommend this book to anyone who likes to become a bridge engineer. There are no other textbook covering basic bridge design as good as this one. They are either too basic or too academic to get a sense of practical design procedure. But, this book covers pretty much all you need from concrete bridge, steel bridge, to abutment design. However, nothing is perfect. I don't agree with some design procedures such as the railing test and overhang slab design. Maybe, since we are in such large and great country, every state DOT has its own way to design the bridge. Even engineers interpret the same code in different ways. All in all, it is a good primer book. To become a good bridge engineer, you still need to read your own state DOT design memos, design guidance, and AASHTO LRFD Bridge Design Specifications (BDS).

this book needs a better thought process and not expect people to understand it by looking at the examples. Plus, the example is just one long examples with really just one way in doing the problem but inconsistent.

Best reference to review Bridge Design for the SE Exam for Engineers without a bridge background

This book was a gift.

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