



Design of Highway Bridges: An LRFD Approach

By Richard M. Barker, Jay A. Puckett

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Up-to-date coverage of bridge design and analysis— revised to reflect the fifth edition of the AASHTO LRFD specifications

Design of Highway Bridges, Third Edition offers detailed coverage of engineering basics for the design of short- and medium-span bridges. Revised to conform with the latest fifth edition of the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications, it is an excellent engineering resource for both professionals and students. This updated edition has been reorganized throughout, spreading the material into twenty shorter, more focused chapters that make information even easier to find and navigate. It also features:

- Expanded coverage of computer modeling, calibration of service limit states, rigid method system analysis, and concrete shear
- Information on key bridge types, selection principles, and aesthetic issues
- Dozens of worked problems that allow techniques to be applied to real-world problems and design specifications
- A new color insert of bridge photographs, including examples of historical and aesthetic significance
- New coverage of the "green" aspects of recycled steel
- Selected references for further study

From gaining a quick familiarity with the AASHTO LRFD specifications to seeking broader guidance on highway bridge design—*Design of Highway Bridges* is the one-stop, ready reference that puts information at your fingertips, while also serving as an excellent study guide and reference for the U.S. Professional Engineering Examination.

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Editorial Review

From the Back Cover

The up-to-date guide to applying theory and specifications to real-world highway bridge design

Design of Highway Bridges, Second Edition offers detailed coverage of engineering basics for the design of short- and medium-span bridges. Based on the American Association of State Highway and Transportation Officials (AASHTO) LRFD Bridge Design Specifications, it is an excellent engineering resource. This updated edition features:

- Expanded coverage of structural analysis, including axle and lane loads, along with new numerical analytic methods and approaches
- Dozens of worked problems, primarily in Customary U.S. units, that allow techniques to be applied to real-world problems and design specifications
- Revised AASHTO steel bridge design guidelines that reflect the simplified approach for plate girder bridges
- The latest information on concrete bridges, including new minimum reinforcement requirements, and unbonded tendon stress at ultimate and losses for prestressed concrete girders
- Information on key bridge types, selection principles, and aesthetic issues
- Problems and selected references for further study
- And more

From gaining quick familiarity with the AASHTO LRFD specifications to seeking broader guidance on highway bridge design—this is the one-stop, ready reference that puts information at your fingertips.

About the Author

The late **RICHARD M. BARKER, PhD, PE**, was Professor Emeritus of Civil and Environmental Engineering at Virginia Polytechnic Institute and State University. Dr. Barker spent more than fifty years as a structural designer, project engineer, researcher, and teacher.

JAY A. PUCKETT, PhD, PE, is V. O. Smith Professor of Civil and Architectural Engineering at the University of Wyoming and President of BridgeTech, Inc., a consulting firm that specializes in software development for bridge engineering. With over thirty years of experience in bridge research and development, he has developed software for the analysis and rating of bridge systems that is currently in use at over forty transportation agencies. Dr. Puckett was a subconsultant to Michael Baker Jr. Inc. for the development of AASHTO's new rating and design systems (Virtis/Opis). His research has involved several National Academy NCHRP projects.

Users Review

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