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9780071752497: Bridge Engineering, Third Edition ...

This book is a textbook on bridge engineering suitable for engineering students, bridge engineers in the early phase of their careers who need to develop their knowledge base, and more experienced bridge engineers seeking a handy reference. Some key strengths of the book are: - Updating to the LRFD code.

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Bridge Engineering; About the Authors; Contents; Preface; Preface to the First Edition; Section 1: Highway Bridges; 1.1 Use and Functionality; 1.1.1 Terminology and Nomenclature

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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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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

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



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study guide and reference for the U.S. Professional Engineering Examination.

First Published in 1999: The Bridge Engineering Handbook is a unique, comprehensive, and state-of-the-art reference work and resource book covering the major areas of bridge engineering with the theme "bridge to the 21st century."

Fully updated coverage of the entire bridge engineering process Revised to reflect the latest codes, standards, and technical advances, this practical reference covers every aspect of highway bridge engineering and management. Bridge Engineering: Design, Rehabilitation, and Maintenance of Modern Highway Bridges, Fourth Edition, features the latest analysis, design, and construction methods as well as up-to-date information on materials and components. Cutting-edge maintenance and repair techniques are explained in complete detail. Real-world case studies and detailed photos and illustrations are provided throughout. Coverage includes:

- Highway bridge structures
- Project inception and funding
- Design standards
- Bridge inspection and site survey
- Physical testing
- As-built plans and other record data
- Superstructure and deck types
- Wearing surface types
- Deck joint types
- Design loads and methods
- Internal forces and load distribution
- Concrete deck slabs
- Composite steel members
- Plate girders and continuous beams
- Protecting steel superstructures
- Load rating
- Prestressed concrete
- Substructure design
- Abutments and piers
- Bearings
- Managing the design process
- Contract documents
- Bridge management systems

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The repair, renovation and replacement of highway infrastructure, along with the provision of new highways, is a core element of civil engineering, so this book covers basic theory and practice in sufficient depth to provide a solid grounding to students of civil engineering and trainee practitioners. Moves in a logical sequence from the planning and economic justification for a highway, through the geometric design and traffic analysis of highway links and intersections, to the design and maintenance of both flexible and rigid pavements Covers geometric alignment of highways, junction and pavement design, structural design and pavement maintenance Includes detailed discussions of traffic analysis and the economic appraisal of projects Makes frequent reference to the Department of Transport 's Design Manual for Roads and Bridges Places the provision of roads and motorways in context by introducing the economic, political, social and administrative dimensions of the subject

Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

A detailed account of the construction of the Brooklyn Bridge providing background on its engineering history as well as the political and social climate of the late-nineteenth century. Reissue. 10,000 first printing.

Petroski reveals the science and engineering--not to mention the politics, egotism, and sheer magic--behind America's great bridges, particularly those constructed during the great bridge-building era starting in the 1870s and continuing through the 1930s. It is the story of the

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men and women who built the St. Louis, the George Washington, and the Golden Gate bridges, drawing not only on their mastery of numbers but on their gifts for persuasion and self-promotion. It is an account of triumphs and ignominious disasters (including the Tacoma Narrows Bridge, which literally twisted itself apart in a high wind). And throughout this grandly engaging book, Petroski lets us see how bridges became the "symbols and souls" of our civilization, as well as testaments to their builders' vision, ingenuity, and perseverance. "Seamlessly linked...With astonishing scope and generosity of view, Mr. Petroski places the tradition of American bridge-building in perspective."--New York Times Book Review

This synthesis will be of interest to geotechnical, bridge construction, and maintenance engineers and others interested in design, construction, and maintenance of embankment approaches to bridge abutments. Information is provided on available techniques to minimize problems associated with the bump at the end of the bridge. The transition from a roadway to a bridge structure entails design, construction, and maintenance problems. This report of the Transportation Research Board describes those problems as well as the many solutions that are applicable to specific situations.

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