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Cable-Stayed Bridges - Holger Svensson 2013-08-06

The need for large-scale bridges is constantly growing due to the enormous infrastructure development around the world. Since the 1970s many of them have been cable-stayed bridges. In 1975 the largest span length was 404 m, in 1995 it increased to 856 m, and today it is 1104 m. Thus the economically efficient range of cable-stayed bridges is tending to move towards even larger spans, and cable-stayed bridges are increasingly the focus of interest worldwide. This book describes the fundamentals of design analysis, fabrication and construction, in which the author refers to 250 built examples to illustrate all aspects. International or national codes and technical regulations are referred to only as examples, such as bridges that were designed to German DIN, Eurocode, AASHTO, British Standards. The chapters on cables and erection are a major focus of this work as they represent the most important difference from other types of bridges. The examples were chosen from the bridges in which the author was personally involved, or where the consulting engineers, Leonhardt, Andrä and Partners (LAP), participated significantly. Other bridges are included for their special structural characteristics or their record span lengths. The most important design engineers are also presented. Note: The lecture videos which are attached to the print book on DVD are not part of the e-book.

Bridge Engineering Handbook - Wai-Fah Chen 2014-01-24

Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive collection highlights bridge engineering specimens from around the world, contains detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject

Developments in International Bridge Engineering - Polat Gülkan 2021-04-27

This book reports on current challenges in bridge engineering faced by professionals around the globe, giving a special emphasis to recently developed techniques and methods for bridge design, construction and monitoring. Based on extended and revised papers selected from outstanding presentation at the Istanbul Bridge Conference 2018, held from November 5 - 6, 2018, in Istanbul, Turkey, and by highlighting major bridge studies, spanning from numerical and modeling studies to the applications of new construction techniques and monitoring systems, this book is intended to promote high standards in modern bridge engineering. It offers a timely reference to both academics and professionals in this field.

Geosynthetic Reinforced Soil (GRS) Walls - Jonathan T. H. Wu 2019-07-10

The first book to provide a detailed overview of Geosynthetic Reinforced Soil Walls Geosynthetic Reinforced Soil (GRS) Walls deploy horizontal layers of closely spaced tensile inclusion in the fill material to achieve stability of a soil mass. GRS walls are more adaptable to different environmental conditions, more economical, and offer high performance in a wide range of transportation infrastructure applications. This book addresses both GRS and GMSE, with a much stronger emphasis on the former. For completeness, it begins with a review of shear strength of soils and classical earth pressure theories. It then goes on to examine the use of geosynthetics as reinforcement, and followed by the load-deformation behavior of GRS mass as a soil-geosynthetic composite, reinforcing mechanisms of GRS, and GRS walls with different types

of facing. Finally, the book finishes by covering design concepts with design examples for different loading and geometric conditions, and the construction of GRS walls, including typical construction procedures and general construction guidelines. The number of GRS walls and abutments built to date is relatively low due to lack of understanding of GRS. While failure rate of GMSE has been estimated to be around 5%, failure of GRS has been found to be practically nil, with studies suggesting many advantages, including a smaller susceptibility to long-term creep and stronger resistance to seismic loads when well-compacted granular fill is employed. Geosynthetic Reinforced Soil (GRS) Walls will serve as an excellent guide or reference for wall projects such as transportation infrastructure—including roadways, bridges, retaining walls, and earth slopes—that are in dire need of repair and replacement in the U.S. and abroad. Covers both GRS and GMSE (MSE with geosynthetics as reinforcement); with much greater emphasis on GRS walls Showcases reinforcing mechanisms, engineering behavior, and design concepts of GRS and includes many step-by-step design examples Features information on typical construction procedures and general construction guidelines Includes hundreds of line drawings and photos Geosynthetic Reinforced Soil (GRS) Walls is an important book for practicing geotechnical engineers and structural engineers, as well as for advanced students of civil, structural, and geotechnical engineering.

Polymer-duct systems for internal bonded post-tensioning - fib Fédération internationale du béton 2014-12-01

The purpose of this recommendation - fib Bulletin 75: Polymer-duct systems for internal bonded post-tensioning - is to update and amend fib Bulletin 7: Corrugated plastic ducts for internal bonded post-tensioning, a technical report published in 2000. fib Bulletin 75 is meant as a cornerstone for the technical approval of polymer (plastic) ducts for internal bonded post-tensioning and possibly for the test procedures of a future testing standard. The updated bulletin includes new information on the design and detailing of concrete structures containing tendons with polymer ducts. The recommendation provides detailed test specifications for polymer materials, duct components and duct systems. In addition, the report contains recommendations for approval testing and attestations of conformity for polymer-duct systems. Although the new generation of corrugated polymer ducts for bonded post-tensioning have now been around for approximately twenty years, products still differ in material properties, geometrical detail, installation procedures and on-site use. Unlike corrugated steel ducts or smooth polyethylene (PE) pipes, they have not yet become standardized. It is the opinion of fib Task Group 9.16 and Commission 9 that these plastic ducts should, therefore, still be subjected to a systems approval process. This recommendation offers information acquired from twenty years of experience as well as new specifications that will, hopefully, lead to the standardization of polymer-duct systems.

Innovative Bridge Designs for Rapid Renewal - 2013

This report from the second Strategic Highway Research Program (SHRP 2), which is administered by the Transportation Research Board of the National Academies, documents the development of standardized approaches to designing and constructing complete bridge systems for rapid renewals.

AASHTO LRFD Bridge Design Specifications: Customary U.S. units - 1998

Guidelines for Analysis Methods and Construction Engineering of Curved and Skewed Steel Girder Bridges - 2012

"TRB's National Cooperative Highway Research Program (NCHRP) Report 725: Guidelines for Analysis Methods and Construction Engineering of Curved and Skewed Steel Girder Bridges offers guidance on the appropriate level of analysis needed to determine the constructability and constructed geometry of curved and skewed steel girder bridges. When appropriate in lieu of a 3D analysis, the guidelines also introduce improvements to 1D and 2D analyses that require little additional computational costs."--Publication information.

AASHTO Guide Specifications for LFRD Seismic Bridge Design - 2009

Covers seismic design for typical bridge types and applies to non-critical and non-essential bridges. Approved as an alternate to the seismic provisions in the AASHTO LFRD Bridge Design Specifications. Differs from the current procedures in the LFRD Specifications in the use of displacement-based design procedures, instead of the traditional force-based "R-Factor" method. Includes detailed guidance and commentary on earthquake resisting elements and systems, global design strategies, demand modeling, capacity calculation, and liquefaction effects. Capacity design procedures underpin the Guide Specifications' methodology; includes prescriptive detailing for plastic hinging regions and design requirements for capacity protection of those elements that should not experience damage.

Sustainable Bridge Structures - Khaled Mahmoud 2015-08-07

The ever-increasing traffic demands, coupled with deteriorating condition of bridge structures, present great challenges for maintaining a healthy transportation network. The challenges encompass a wide range of economic, environmental, and social constraints that go beyond the technical boundaries of bridge engineering. Those constraints compound

Bridge Design and Evaluation - Gongkang Fu 2013-01-09

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.

Design of Pile Foundations - US Army Corps of Engineers 2005-01-01

This manual provides information, foundation exploration and testing procedures, load test methods, analysis techniques, allowable criteria, design procedures, and construction consideration for the selection, design, and installation of pile foundations. The guidance is based on the present state of the technology for pile-soil-structure-foundation interaction behavior. This manual provides design guidance intended specifically for the geotechnical and structural engineer but also provides essential information for others interested in pile foundations such as the construction engineer in understanding construction techniques related to pile behavior during installation. Since the understanding of the physical causes of pile foundation behavior is actively expanding by better definition through ongoing research, prototype, model pile, and pile group testing and development of more refined analytical models, this manual is intended to provide examples and procedures of what has been proven successful. This is not the last nor final word on the state of the art for this technology. We expect, as further practical design and installation procedures are developed from the expansion of this technology, that these updates will be issued as changes to this manual.

LRFD Guide Specifications for the Design of Pedestrian Bridges - American Association of State Highway and Transportation Officials 2009

Simplified LRFD Bridge Design - Jai B. Kim 2013-04-08

Developed to comply with the fifth edition of the AASHTO LFRD Bridge Design Specifications [2010]--Simplified LRFD Bridge Design is "How To" use the Specifications book. Most engineering books utilize traditional deductive practices, beginning with in-depth theories and progressing to the application of theories. The inductive method in the book uses alternative approaches, literally teaching backwards. The book introduces topics by presenting specific design examples. Theories can be understood by students because they appear in the text only after specific design examples are presented, establishing the need to know theories. The emphasis of the book is on step-by-step design procedures of highway bridges by the LRFD method, and "How to Use" the AASHTO Specifications to solve design problems. Some of the design examples and practice problems covered include: Load combinations and load factors Strength limit states for superstructure design Design Live Load HL- 93 Un-factored and Factored Design Loads Fatigue Limit State and fatigue life; Service Limit State Number of design lanes Multiple presence factor of live load Dynamic load allowance Distribution of Live Loads per Lane Wind Loads, Earthquake Loads Plastic moment capacity of composite steel-concrete beam LRFR Load Rating Simplified LRFD Bridge Design is a study guide for engineers preparing for the PE examination as well as a classroom text for civil engineering students and a reference for practicing engineers. Eight design examples and three practice problems describe and introduce the use of articles, tables, and figures from the AASHTO LFRD Bridge Design Specifications. Whenever articles, tables, and figures in examples appear throughout the text, AASHTO LRFD specification numbers are also cited, so that users can cross-reference the material.

Using the Engineering Literature, Second Edition - Bonnie A. Osif 2011-08-09

With the encroachment of the Internet into nearly all aspects of work and life, it seems as though information is everywhere. However, there is information and then there is correct, appropriate, and timely information. While we might love being able to turn to Wikipedia® for encyclopedia-like information or search Google® for the thousands of links on a topic, engineers need the best information, information that is evaluated, up-to-date, and complete. Accurate, vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award-winning first edition of Using the Engineering Literature used a roadmap analogy, we now need a three-dimensional analysis reflecting the complex and dynamic nature of research in the information age. Using the Engineering Literature, Second Edition provides a guide to the wide range of resources available in all fields of engineering. This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering. The information age has greatly impacted the way engineers find information. Engineers have an effect, directly and indirectly, on almost all aspects of our lives, and it is vital that they find the right information at the right time to create better products and processes. Comprehensive and up to date, with expert chapter authors, this book fills a gap in the literature, providing critical information in a user-friendly format.

High-performance/high-strength Lightweight Concrete for Bridge Girders and Decks - Thomas E. Cousins 2013

"TRB's National Cooperative Highway Research Program (NCHRP) Report 733: High-Performance/High-Strength Lightweight Concrete for Bridge Girders and Decks presents proposed changes to the American Association of State Highway and Transportation Officials' Load and Resistance Factor Design (LRFD) bridge design and construction specifications to address the use of lightweight concrete in bridge girders and decks. The proposed specifications are designed to help highway agencies evaluate between comparable designs of lightweight and normal weight concrete bridge elements so that an agency's ultimate selection will yield the greatest economic benefit. The attachments contained in the research agency's final report provide elaborations and detail on several aspects of the research. Attachments A and B provide proposed changes to AASHTO LRFD bridge design and bridge construction specifications, respectively; these are included in the print and PDF version of the report. Attachments C through R are available for download below. Attachments C, D, and E contain a detailed literature review, survey results,

and a literature summary and the approved work plan, respectively. Attachment C; Attachment D ; Attachment E; Attachments F through M provide details of the experimental program that were not able to be included in the body of this report. Attachment F; Attachment G; Attachment H; Attachment I; Attachment J; Attachment K; Attachment L; Attachment M. Attachments N through Q present design examples of bridges containing lightweight concrete and details of the parametric study. Attachment N; Attachment O; Attachment P; Attachment Q. Attachment R is a detailed reference list."--Publication information.

Guide for the Planning, Design, and Operation of Pedestrian Facilities - 2004

AASHTO LRFD Bridge Design Specifications: Section 6-Index - 2010

Bridge Engineering Handbook, Second Edition - Wai-Fah Chen 2014-01-24

Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive collection highlights bridge engineering specimens from around the world, contains detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject. Published in five books: Fundamentals, Superstructure Design, Substructure Design, Seismic Design, and Construction and Maintenance, this new edition provides numerous worked-out examples that give readers step-by-step design procedures, includes contributions by leading experts from around the world in their respective areas of bridge engineering, contains 26 completely new chapters, and updates most other chapters. It offers design concepts, specifications, and practice, as well as the various types of bridges. The text includes over 2,500 tables, charts, illustrations, and photos. The book covers new, innovative and traditional methods and practices; explores rehabilitation, retrofit, and maintenance; and examines seismic design and building materials. The second book, Superstructure Design, contains 19 chapters, and covers information on how to design all types of bridges. What's New in the Second Edition: Includes two new chapters: Extradosed Bridges and Stress Ribbon Pedestrian Bridges Updates the Prestressed Concrete Girder Bridges chapter and rewrites it as two chapters: Precast/Pretensioned Concrete Girder Bridges and Cast-In-Place Post-Tensioned Prestressed Concrete Girder Bridges Expands the chapter on Bridge Decks and Approach Slabs and divides it into two chapters: Concrete Decks and Approach Slabs Rewrites seven chapters: Segmental Concrete Bridges, Composite Steel I-Girder Bridges, Composite Steel Box Girder Bridges, Arch Bridges, Cable-Stayed Bridges, Orthotropic Steel Decks, and Railings This text is an ideal reference for practicing bridge engineers and consultants (design, construction, maintenance), and can also be used as a reference for students in bridge engineering courses.

Killer Roads: From Crash to Verdict 2nd Edition - William Kenworthy 2021-12-03

More than 40,000 people are killed on our highways each year, and millions more are injured. Bad drivers and bad vehicles alone do not account for this carnage. The highway itself is often a contributing -- even determining -- cause of accidents. Killer Roads provides comprehensive guidance on the many issues surrounding transportation facility negligence. It helps you pinpoint essential engineering issues and relevant road defects, assess the quality of maintenance, identify pertinent engineering standards, and understand the liability of all parties. However, Killer Roads goes beyond describing the legal basis for your courtroom strategy. It also provides helpful, hands-on guidance for implementing this strategy successfully. Written in straightforward language, Killer Roads demonstrates how highway liability issues impact your approach to jury selection, the opening statement, cross-examination, and expert witness testimony.

Handbook of International Bridge Engineering - Wai-Fah Chen 2013-10-11

This comprehensive and up-to-date reference work and resource book covers state-of-the-art and state-of-the-practice for bridge engineering worldwide. Countries covered include Canada and the United States in North America; Argentina and Brazil in South America; Bosnia, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Greece, Macedonia, Poland, Russia, Serbia, Slovakia, and Ukraine in the European continent; China, Indonesia, Japan, Chinese Taipei, and Thailand in Asia; and Egypt, Iran, and Turkey in the Middle East. The book examines the use of different materials for each region, including stone, timber, concrete, steel, and composite. It examines various bridge types, including slab, girder,

segmental, truss, arch, suspension, and cable-stayed. A color insert illustrates select landmark bridges. It also presents ten benchmark comparisons for highway composite girder design from different countries; the highest bridges; the top 100 longest bridges, and the top 20 longest bridge spans for various bridge types including suspension, cable-stayed, extradosed, arch, girder, movable bridges (vertical lift, swing, and bascule), floating, stress ribbon, and timber; and bridge construction methods.

Structural Concrete - M. Nadim Hassoun 2012-05

Emphasizing a conceptual understanding of concrete design and analysis, this revised and updated edition builds the student's understanding by presenting design methods in an easy to understand manner supported with the use of numerous examples and problems. Written in intuitive, easy-to-understand language, it includes SI unit examples in all chapters, equivalent conversion factors from US customary to SI throughout the book, and SI unit design tables. In addition, the coverage has been completely updated to reflect the latest ACI 318-11 code.

Design of Highway Bridges - Richard M. Barker 2013-02-04

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.

Structural Steel Designer's Handbook - R. L. Brockenbrough 1994

This sourcebook reflects advances in standard design specifications and industry practices. The third edition offers access to reliable data on the material properties of steel, with coverage of the trend towards load- resistance-factor design (LRFD) in both bridges and buildings.

Asset Management of Bridges - Khaled M Mahmoud 2017-08-10

Maintaining bridges in good condition has extended service life and proven to be more cost effective than allowing degradation to advance, necessitating costlier bridge rehabilitation or replacement projects. Preventive maintenance is therefore an important tool to retard deterioration and sustain the safe operation of bridges. This includes a continuous effort of periodic inspections, condition evaluations and prioritizing repairs accordingly. The above measures define the framework for asset management of bridges. On August 21-22, 2017, bridge engineering experts from around the world convened at the 9th New York City Bridge Conference to discuss issues of construction, design, inspection, monitoring, preservation and rehabilitation of bridge structures. This volume documents their contributions to the safe operation of bridge assets.

Bridge Engineering Handbook, Five Volume Set - Wai-Fah Chen 2014-01-24

Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive collection provides detailed information on bridge engineering, and thoroughly explains the concepts and practical applications surrounding the subject, and also highlights bridges from around the world. Published

Simplified Shear Design of Structural Concrete Members - National Cooperative Highway Research Program 2005

"TRB's National Cooperative Highway Research Program (NCHRP) Report 549: Simplified Shear Design of Structural Concrete Members examines development of practical equations for design of shear

reinforcement in reinforced and prestressed concrete bridge girders. The report also includes recommended specifications, commentary, and examples illustrating application of the specifications. NCHRP Web-Only Document 78 contains extensive supporting information, including a database that can be used to compare the predictions from the recommended procedures to existing design procedures"-- Publisher's description

AASHTO LRFD Bridge Design Guide Specifications for GFRP-reinforced Concrete Bridge Decks and Traffic Railings - 2009

Glass fiber reinforced polymer (GFRP) materials have emerged as an alternative material for producing reinforcing bars for concrete structures. GFRP reinforcing bars offer advantages over steel reinforcement due to their noncorrosive nature and nonconductive behavior. Due to other differences in the physical and mechanical behavior of GFRP materials as opposed to steel, unique guidance on the engineering and construction of concrete bridge decks reinforced with GFRP bars is needed. These guide specifications offer a description of the unique material properties of GFRP composite materials as well as provisions for the design and construction of concrete bridge decks and railings reinforced with GFRP reinforcing bars.

A Policy on Geometric Design of Highways and Streets, 2018 - 2018

Highway engineers, as designers, strive to meet the needs of highway users while maintaining the integrity of the environment. Unique combinations of design controls and constraints that are often conflicting call for unique design solutions. A Policy on Geometric Design of Highways and Streets provides guidance based on established practices that are supplemented by recent research. This document is also intended as a comprehensive reference manual to assist in administrative, planning, and educational efforts pertaining to design formulation

Structural Concrete - M. Nadim Hassoun 2012-06-14

The popular, easily accessible guide to the design of reinforced concrete structures—now updated and revised Structural Concrete, Fifth Edition provides complete guidance to the analysis and design of reinforced and prestressed concrete structures. This new edition brings all material up to date while maintaining the book's practical, logical, easy-to-follow approach. Coverage includes the latest ACI 318 - 11 code rules, emphasizing the code's strength approach and strain limits. Additional codes, standards, and specifications, as well as material properties and specific loads and safety provisions are also examined in detail. Drawing on decades of experience in industry and academia, the authors include numerous SI unit examples and design tables along with step-by-step instructions on how to analyze and design for each type of structural member. They clearly explain all key concepts one should know before tackling design formulas, and supplement the discussion with helpful end-of-chapter summaries, references, and problems. New and updated material in this edition includes: The application of shear design to beams with variable length in actual structure The design of deep beams employing ACI and AASHTO strut-and-tie approach The design of stepped-type reinforced concrete stairs, not covered anywhere else Seismic design and analysis utilizing the IBC 2012 and ASCE 7-10 code The design of curved beams subject to flexure, shear, and torsion Prestressed concrete bridge design according to AASHTO specifications Examples for predicting shrinkage and creep of concrete in both U.S. and SI units Structural Concrete, Fifth Edition arms civil and structural engineers with a complete set of tools for designing concrete structures with confidence. It is also an excellent resource for students of civil engineering.

Bridge Maintenance, Safety, Management, Resilience and Sustainability - Fabio Biondini 2012-06-21

Bridge Maintenance, Safety, Management, Resilience and Sustainability contains the lectures and papers

presented at The Sixth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2012), held in Stresa, Lake Maggiore, Italy, 8-12 July, 2012. This volume consists of a book of extended abstracts (800 pp) and a DVD (4057 pp) co

Sunset Area Community Planned Action - 2011

Durability of Bridge Structures - Khaled Mahmoud 2013-09-12

On Thursday evening, May 23, 2013, the Interstate 5 Bridge over the Skagit River in Washington state collapsed due to impact by an oversize truck, dumping vehicles and people into the water. Fortunately, the bridge is located in a rural area and nobody was killed in the accident, but three people were rescued after their cars plunged into the frigi

Design of Highway Bridges - Richard M. Barker 1997-03-17

Design of Highway Bridges provides a complete introduction to this important area of engineering, with comprehensive coverage of the theory, specifications, and procedures for the design of short- and medium-span bridges. Beginning with an overview of bridge engineering history, the book examines key bridge types, selection principles, and aesthetic considerations. Design issues are then discussed in detail, from limit states and loads to resistance factors and substructure design.

Effective Slab Width for Composite Steel Bridge Members - Stuart S. Chen 2005

TRB's National Cooperative Highway Research Program (NCHRP) Report 543: Effective Slab Width for Composite Steel Bridge Members examines recommended revisions to the American Association of State Highway and Transportation Officials' specifications for the effective slab width of composite steel bridge members. The report's recommended specifications are applicable to all types of composite steel bridge superstructures and are suitable for design office use. Accompanying CRP-CD-56 contains extensive supporting information, including the recommended specifications and design examples.

AASHTO Load and Resistance Factor Design Movable Highway Bridge Design Specifications - American Association of State Highway and Transportation Officials. Subcommittee on Bridges and Structures 2007

Roadside Design Guide - American Association of State Highway and Transportation Officials. Task Force for Roadside Safety 1989

The Manual for Bridge Evaluation - American Association of State Highway and Transportation Officials. Subcommittee on Bridges and Structures 2011

Guide Specifications for Seismic Isolation Design - 2010

This edition is based on the work of NCHRP project 20-7, task 262 and updates the 2nd (1999) edition -- P. ix.

Multi-Span Large Bridges - Pedro Pacheco 2015-06-09

Throughout the last decades, the increasing development of the urban metropolis and the need to establish fundamental infrastructure networks, promoted the development of important projects worldwide and several Multi-Span Large Bridges have been erected. Certainly, many more will be erected in the next decades. This international context undoubted