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# CHAPTER 15

## STEEL STRUCTURES<sup>1</sup>

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### FOREWORD

Part 1 through Part 4, Part 6, and Part 7 formulate specific and detailed recommendations for the design, fabrication, erection, maintenance, inspection, and testing of steel railway bridges for:

- Spans up to 400 feet,
- Standard gauge track,
- Normal North American passenger and freight equipment, and
- Spans of freight trains up to 30 mph and passenger trains up to 90 mph.

The requirements, however, apply to spans of any length, but special provisions for spans longer than 400 feet should be added by the designer as may be required. Part 5, Bearing Design and Construction, formulates specific and detailed recommendations for the design and construction of bearings for nonmovable railway bridges. Recommendations for the design and construction of special bearings for movable railway bridges are included in Part 8, Movable Bridges. Part 9 covers nonconformance items. Part 9 is a nonmandatory, nonbinding reference, for application of various articles in the other parts.

This chapter is presented as a consensus document by a committee composed of railroad engineers, engineers in private practice, engineers involved in research and teaching, and other industry professionals having substantial and broad-based experience in designing, evaluating, and investigating steel structures used by railroads. The recommendations contained herein are based upon general usage, advances in the state of knowledge, and changes in design and maintenance practices. These recommendations have been developed and are intended for routine use and may not provide sufficient criteria for indeterminate or exceptional conditions. Therefore, professional judgment must be exercised when applying the recommendations of this chapter as part of an overall solution to any particular issue.

In general, this chapter is revised and published once on an annual basis. The latest published edition of the chapter should be used, regardless of the age of an existing structure. For purposes of determining historical recommendations under which an existing structure may have been built and maintained, it may prove useful to examine previously published editions of the chapter. However, when historical recommendations differ from the recommendations contained in the latest published edition of the chapter, the recommendations of the latest published edition of the chapter shall govern.

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<sup>1</sup> The material in this and other chapters in the AREMA *Manual for Railway Engineering* is published as recommended practice in railroad and other commercial with the engineering, design and construction of railroad track property (except signal and communication), and of their services and facilities (Chapters 1-9). For the purpose of this Manual, RECOMMENDED PRACTICE is defined as a standard, device, design, plan, specification, practice recommended by the railroad for use as required, either exactly as presented or with such modifications as may be necessary or desirable to meet the needs of individual railroads, but in either event, with a view to promoting sufficiency and economy in the location, construction, inspection and maintenance of railroads. It is not intended to imply that other practices may not be equally acceptable.

# Arema Manual Chapter 15

**Anthony S. Fauci**

## Arema Manual Chapter 15:

*Bridge Engineering Handbook, Second Edition* Wai-Fah Chen,Lian Duan,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 first book Fundamentals contains 22 chapters and covers aesthetics planning design specifications structural modeling fatigue and fracture What's New in the Second Edition Covers the basic concepts theory and special topics of bridge engineering Includes seven new chapters Finite Element Method High Speed Railway Bridges Concrete Design Steel Design Structural Performance Indicators for Bridges High Performance Steel and Design and Damage Evaluation Methods for Reinforced Concrete Beams under Impact Loading Provides substantial updates to existing chapters including Conceptual Design Bridge Aesthetics Achieving Structural Art in Bridge Design and Application of Fiber Reinforced Polymers in Bridges 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

### **Bridge Engineering Handbook** Wai-Fah Chen,Lian

Duan,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 subjec

**Hydro-Environmental Analysis** James L. Martin,2013-12-04 Focusing on fundamental principles Hydro Environmental Analysis Freshwater Environments presents in depth information about freshwater environments and how they are influenced by regulation It provides a holistic approach exploring the factors that impact water quality and quantity and the regulations policy and management methods that are necessary to maintain this vital resource It offers a historical viewpoint as well as an overview and foundation of the physical chemical and biological characteristics affecting the management of freshwater environments The book concentrates on broad and general concepts providing an interdisciplinary foundation The author covers the methods of measurement and classification chemical physical and biological characteristics indicators of ecological health and management and restoration He also considers common

indicators of environmental health characteristics and operations of regulatory control structures applicable laws and regulations and restoration methods The text delves into rivers and streams in the first half and lakes and reservoirs in the second half Each section centers on the characteristics of those systems and methods of classification and then moves on to discuss the physical chemical and biological characteristics of each In the section on lakes and reservoirs it examines the characteristics and operations of regulatory structures and presents the methods commonly used to assess the environmental health or integrity of these water bodies It also introduces considerations for restoration and presents two unique aquatic environments wetlands and reservoir tailwaters Written from an engineering perspective the book is an ideal introduction to the aquatic and limnological sciences for students of environmental science as well as students of environmental engineering It also serves as a reference for engineers and scientists involved in the management regulation or restoration of freshwater environments

Safety, Reliability, Risk and Life-Cycle Performance of Structures and Infrastructures George Deodatis,Bruce R. Ellingwood,Dan M. Frangopol,2014-02-10 Safety Reliability Risk and Life Cycle Performance of Structures and Infrastructures contains the plenary lectures and papers presented at the 11th International Conference on

STRUCTURAL SAFETY AND RELIABILITY ICOSSAR2013 New York NY USA 16 20 June 2013 This set of a book of abstracts and searchable full paper USBdevice is must have literature for researchers and practitioners involved with safety reliability risk and life cycle performance of structures and infrastructures

*Structural Steel Designer's Handbook* Roger L. Brockenbrough,Frederick S. Merritt,2011-02-07 A Complete and Current Guide to Structural Steel Design Fully updated with the most recent design codes standards and specifications Structural Steel Designer s Handbook Fifth Edition provides a convenient single source of the latest information essential to the practical design of steel structures This comprehensive volume begins by covering the properties of structural steel and the fundamentals of fabrication and erection Modern structural design methods applicable to buildings and other structures such as roof systems and various types of bridges are presented Details on the design of members beams columns and tension components and of bolted and welded connections are also covered Featuring contributions from renowned engineering experts this is an invaluable working tool for structural steel designers Based on the latest design standards codes and specifications ANSI AISC 360 10 unified LRFD and ASD specification ANSI AISI S100 unified specification for cold formed members SEI ASCE 7 10 wind seismic and live loads consolidated into the International Code Council ICC International Building Code IBC AASHTO highway bridge design standards ASTM material standards AREMA railroad bridge design specifications Coverage Includes Properties of structural steels and effects of steel making and fabrication Fabrication and erection Connections Building codes loads and fire protection Criteria for building design Design of building members Floor and roof systems Lateral force design Cold formed steel design Highway bridge design criteria Railroad bridge design criteria Beam and girder bridges Truss bridges Arch bridges Cable suspended bridges

**Structural Engineering Handbook, Fifth Edition** Mustafa Mahamid,Edwin H.

Gaylord, Charles N. Gaylord, 2020-04-17 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The industry standard guide to structural engineering fully updated for the latest advances and regulations For 50 years this internationally renowned handbook has been the go to reference for structural engineering specifications codes technologies and procedures Featuring contributions from a variety of experts the book has been revised to align with the codes that govern structural design and materials including IBC ASCE 7 ASCE 37 ACI AISC AASHTO NDS and TMS Concise practical and user friendly this one of a kind resource contains real world examples and detailed descriptions of today's design methods

Structural Engineering Handbook Fifth Edition covers Computer applications in structural engineering Earthquake engineering Fatigue brittle fracture and lamellar tearing Soil mechanics and foundations Design of steel structural and composite members Plastic design of steel frames Design of cold formed steel structural members Design of aluminum structural members Design of reinforced and prestressed concrete structural members Masonry construction and timber structures Arches and rigid frames Bridges and girder boxes Building design and considerations Industrial and tall buildings

Thin shell concrete structures Special structures and nonbuilding structures     **Steel Structures** Charles G. Salmon, John Edwin Johnson, Faris Amin Malhas, 2009 The design of structural steel members has developed over the past century from a simple approach involving a few basic properties of steel and elementary mathematics to a more sophisticated treatment demanding a thorough knowledge of structural and material behavior Steel Structures Design and Behavior 5 e strives to present in a logical manner the theoretical background needed for developing and explaining design requirements Beginning with coverage of background material including references to pertinent research the development of specific formulas used in the AISC Specifications is followed by a generous number of design examples explaining in detail the process of selecting minimum weight members to satisfy given conditions

### **Structural Steel Designer's Handbook**

Roger Brockenbrough, Frederick Merritt, 2005-11-16 Mirroring the latest developments in materials methods codes and standards in building and bridge design this is a one of a kind definitive reference for engineers Updated to reflect the latest provisions of the AISC American Institute of Steel Construction AASHTO American Association of State Highway Transportation Officials and AISI American Iron and Steel Institute codes Combines detailed examples with the most current design codes and standards Numerous tables charts formulas and illustrations Contents Properties of Structural Steels and Effects of Steelmaking

### **Bridge Maintenance, Safety, Management and Life Extension**

Airong Chen, Dan Frangopol, Xin Ruan, 2014-05-27 Bridge Maintenance Safety Management and Life Extension contains the lectures and papers presented at IABMAS 2014 the Seventh International Conference on Bridge Maintenance Safety and Management IABMAS 2014 held in Shanghai China July 7-11 2014 This set consists of a book of abstracts and a DVD containing the full papers of 396 contributions presented at IABMAS 2014 including the T Y Lin Lecture nine Keynote Lectures and 386 technical papers from

about 40 countries All major aspects of bridge maintenance safety management and life extension are addressed including advanced materials aging of bridges assessment and evaluation bridge codes bridge diagnostics bridge management systems damage identification design for durability deterioration modeling earthquake and accidental loadings fatigue field testing health monitoring load models life cycle assessment maintenance strategies non destructive testing prediction of future traffic demands repair and replacement residual service life safety and serviceability service life prediction and sustainable bridges among others This set provides an up to date overview of the field of bridge engineering as well as the recent significant contributions to the process of making rational decisions in bridge maintenance safety management sustainability monitoring long life strategy and resources optimization deployment for the purpose of enhancing the welfare of society It will serve as a valuable reference to all concerned with bridge structure and infrastructure systems including students researchers engineers consultants and contractors from all areas of bridge engineering **Design and Construction of Modern Steel Railway Bridges** John F. Unsworth,2017-08-03 This new edition encompasses current design methods used for steel railway bridges in both SI and Imperial US Customary units It discusses the planning of railway bridges and the appropriate types of bridges based on planning considerations ***Structural Steel Designers Handbook***

Brockenbrough-Merritt,1999-11-11 The only A Z guide to structural steel design Find a wealth of practical techniques for cost effectively designing steel structures from buildings to bridges in Structural Steel Designers Handbook by Roger L Brockenbrough and Frederick S Merritt The Handbooks integrated approach gives you immediately useful information about steel as a material how its fabricated and erected how to analyze a structure to determine internal forces and moments from dead live and seismic loads how to make detailed design calculations to withstand those forces This new third edition introduces you to the latest developments in seismic design including more ductile connections and high performance steels offers an expanded treatment of welding helps you understand design requirements for hollow structural sections and for cold formed steel members and explores numerous design examples You get examples for both Load and Resistance Factor Design LRFD and Allowable Stress Design ASD **Standard Specifications** California. Department of Transportation,2015

**Movable Bridge Design** Charles Birnstiel,Bill Bowden,George Foerster,William Bowden,2015-06-16 Against the background of worldwide development this book provides a fascinating and comprehensive guide of both past and current approaches to the design of a wide range of movable bridges **High Strength Bolts** Geoffrey L. Kulak,2002 **Facilities Development Manual** Wisconsin. Department of Transportation,1979 **Concrete International** ,2000 **Proceedings of the ... IEEE/ASME Joint Rail Conference** ,2005 **Track-related Research** ,2004 **Bridge and Highway Structure Rehabilitation and Repair** Mohiuddin A. Khan,2010-02-08 State of the Art Bridge and Highway Rehabilitation and Repair Methods This authoritative volume offers up to date guidance on the latest design techniques repair methods specialized software materials and advanced maintenance procedures for bridges and highway structures Focusing on both traditional

and nontraditional design issues Bridge and Highway Structure Rehabilitation and Repair clarifies the most recent AASHTO bridge design codes and discusses new analytical and design methodologies such as the application of load and resistance factor design LRFD A wealth of concise explanations solved examples and in depth case studies are included in this comprehensive resource COVERAGE INCLUDES Diagnostic design and selective reconstruction Bridge failure studies and safety engineering Analytical approach to fracture and failure Load and resistance factor rating LRFR and redesign Application of LRFD and LRFR methods Inspection and structural health monitoring Bridge widening and replacement strategies Conventional repair methods Advanced repair methods Concrete repair methods Extreme events of flood scour and countermeasures design Guidelines for seismic design and retrofit methods

### **Design of Modern Steel Railway**

**Bridges** John F. Unsworth, 2016-04-19 Perhaps the first book on this topic in more than 50 years Design of Modern Steel Railway Bridges focuses not only on new steel superstructures but also outlines principles and methods that are useful for the maintenance and rehabilitation of existing steel railway bridges It complements the recommended practices of the American Railway Engineering and Maintenance of way Association AREMA in particular Chapter 15 Steel Structures in AREMA's Manual for Railway Engineering MRE The book has been carefully designed to remain valid through many editions of the MRE After covering the basics the author examines the methods for analysis and design of modern steel railway bridges He details the history of steel railway bridges in the development of transportation systems discusses modern materials and presents an extensive treatment of railway bridge loads and moving load analysis He then outlines the design of steel structural members and connections in accordance with AREMA recommended practice demonstrating the concepts with worked examples Topics include A history of iron and steel railway bridges Engineering properties of structural steel typically used in modern steel railway bridge design and fabrication Planning and preliminary design Loads and forces on railway superstructures Criteria for the maximum effects from moving loads and their use in developing design live loads Design of axial and flexural members Combinations of forces on steel railway superstructures Copiously illustrated with more than 300 figures and charts the book presents a clear picture of the importance of railway bridges in the national transportation system A practical reference and learning tool it provides a fundamental understanding of AREMA recommended practice that enables more effective design

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