



U.S. Department of Transportation  
**Federal Highway Administration**

# Steel Bridge Design Handbook

## Bracing System Design

Publication No. FHWA-HIF-16-002 - Vol. 13

December 2015



# Bridge Eng Handbook

**Terry C. Jones**



## **Bridge Eng Handbook:**

**Bridge Engineering Handbook, Five Volume Set** Wai-Fah Chen,Lian Duan,2014 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

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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 *Handbook of International Bridge Engineering* Wai-Fah Chen,Lian Duan,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 *Bridge Engineering Handbook* Wai-Fah Chen,Lian Duan,1999-11-04 An international team of experts has joined forces to produce the Bridge Engineering Handbook They address all facets the planning design inspection construction and maintenance of a variety of bridge structures creating a must have resource for every bridge engineer This unique comprehensive reference provides the means to review standard practices and keep abreast of new developments and state of the art practices Comprising 67 chapters in seven sections the authors present Fundamentals Provides the basic concepts and theory of bridge engineering Superstructure Design Discusses all types of bridges Substructure Design Addresses columns piers abutments and foundations Seismic Design Presents the latest in seismic bridge design Construction and Maintenance Focuses on the practical issues of bridge structures Special Topics Offers new and important information and unique solutions Worldwide Practice Summarizes bridge engineering practices around the world Discover virtually all you need to know about any type of bridge Reinforced Segmental and Prestressed Concrete Steel beam and plate girder Steel box girder Orthotropic deck Horizontally curved Truss Arch Suspension Cable stayed Timber Movable Floating Railroad Special attention is given to rehabilitation retrofit and maintenance and the Bridge Engineering Handbook offers over 1 600 tables charts and illustrations in ready to use format An abundance of worked out examples give readers step by step design procedures and the section on Worldwide Practice provides a broad and valuable perspective on the big picture of bridge engineering *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

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retitles it as Bridge Construction Supervision and Inspection Expands and rewrites the Maintenance Inspection and Rating chapter into three chapters Bridge Inspection Steel Bridge Evaluation and Rating and Concrete Bridge Evaluation and Rating and the Strengthening and Rehabilitation chapter into two chapters Rehabilitation and Strengthening of Highway Bridge Superstructures and Rehabilitation and Strengthening of Orthotropic Steel Bridge Decks 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 W.F. Chen,Lian Duan,2003-02-27 With chapters culled from the acclaimed Bridge Engineering Handbook Bridge Engineering Substructure Design focuses on the various components comprising and affecting bridge substructures These include bearings piers and columns towers abutments and retaining structures footings and foundations and bridge hydraulics For each component the **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 fourth book Seismic Design contains 18 chapters and covers seismic bridge analysis and design What s New in the Second Edition Includes seven new chapters Seismic Random Response Analysis Displacement Based Seismic Design of Bridges Seismic Design of Thin Walled Steel and CFT Piers Seismic Design of Cable Supported Bridges and three chapters covering Seismic Design Practice in California China and Italy Combines Seismic Retrofit Practice and Seismic Retrofit Technology into one chapter called Seismic Retrofit Technology Rewrites Earthquake Damage to Bridges and Seismic Design of Concrete Bridges chapters Rewrites Seismic Design Philosophies and Performance Based Design Criteria chapter and retitles it as Seismic Bridge Design Specifications for the United States Revamps Seismic Isolation and Supplemental Energy Dissipation chapter and retitles it as Seismic Isolation Design for 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

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