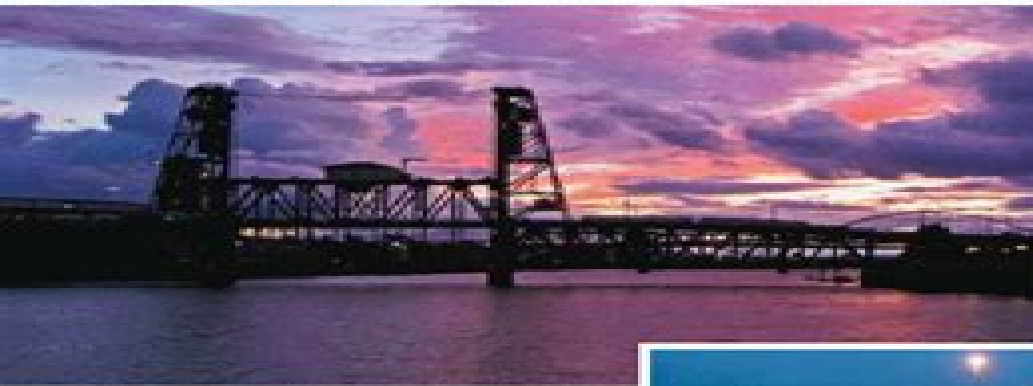


AASHTO LRFD Bridge Design Specifications



8th Edition
September 2017



Aashto Guide Specifications

Wai-Fah Chen, Lian Duan



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Guide Specifications and Commentary for Vessel Collision Design of Highway Bridges, 2nd Edition, with 2010 Interim Revisions , LRFD Guide Specifications for the Design of Pedestrian Bridges American Association of State Highway and Transportation Officials, 2009 These Guide Specifications address the design and construction of typical pedestrian bridges which are designed for and intended to carry primarily pedestrians bicyclists equestrian riders and light maintenance vehicles but not designed and intended to carry typical highway traffic Pedestrian bridges with cable supports or atypical structural systems are not specifically addressed These Guide Specifications provide additional guidance on the design and construction of pedestrian bridges in supplement to that available in the AASHTO LRFD Bridge Design Specifications AASHTO LRFD Only those issues requiring additional or different treatment due to the nature of pedestrian bridges and their loadings are addressed In Article 3 of this document the load definitions and abbreviations are taken from AASHTO LRFD Aluminum and wood structures are adequately covered in AASHTO LRFD and as such are not specifically addressed herein Implementation of the wind loading and fatigue loading provisions require reference to the AASHTO Standard Specifications for Structural Supports for Highway Signs Luminaries and Traffic Signals AASHTO Signs Page 1 **Improved Design Specifications for Horizontally Curved Steel Girder Highway Bridges** Dann H. Hall, Michael A. Grubb, Chai Hong Yoo, National Cooperative Highway Research Program, 1999 **AASHTO Guide Specifications for LRFD Seismic Bridge Design** , 2011 This work offers guidance on bridge design for extreme events induced by human beings This document provides the designer with information on the response of concrete bridge columns subjected to blast loads as well as blast resistant design and detailing guidelines and analytical models of blast load distribution The content of this guideline should be considered in situations where resisting blast loads is deemed warranted by the owner or designer **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 **AASHTO Guide Specifications for Horizontally Curved Steel Girder Highway Bridges with Design Examples for I-Girder and Box-Girder Bridges** , 1993 *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 Recommended Guide Specification for the Design of Externally Bonded FRP Systems for Repair and Strengthening of Concrete Bridge Elements Abdul-Hamid

Zureick,2009 TRB s National Cooperative Highway Research Program NCHRP Report 655 Recommended Guide Specification for the Design of Externally Bonded FRP Systems for Repair and Strengthening of Concrete Bridge Elements examines a recommended guide specification for the design of externally bonded Fiber Reinforced Polymer FRP systems for the repair and strengthening of concrete bridge elements The report addresses the design requirements for members subjected to different loading conditions including flexure shear and torsion and combined axial force and flexure The recommended guide specification is supplemented by design examples to illustrate its use for different FRP strengthening applications

Design of Highway Bridges for Extreme Events Michel Ghosn,Fred Moses,Jian Wang,National Cooperative Highway Research Program,2003 Chapter 1 Introduction Chapter 2 Reliability models for combinations of extreme events Chapter 3 Calibration of load factors for combinations of extreme events Chapter 4 Conclusions and future research References Glossary of notations Appendixes **Comprehensive Specification for the Seismic Design of Bridges** National Cooperative Highway Research Program,2002 **Guide Specifications for Highway Construction, 9th Edition** ,2008

Guide Specifications for Design of FRP Pedestrian Bridges American Association of State Highway and Transportation Officials,2008 *Guidelines for Evaluating the Performance of Highway Sound Barriers* Highway Innovative Technology Evaluation Center (U.S.),1996-01-01 Prepared by the Highway Innovative Technology Evaluation Center a CERF Service Center This report presents the HITEC evaluation plan for U S Gypsum s Sight and Sound Screen The Sight and Sound Screen is a post and panel wall system designed to act as a sight and sound barrier for highways and as a privacy system for residential and commercial property owners The HITEC evaluation will measure the performance of the barrier against the criteria presented in this report which reflect the needs of the highway community Although this evaluation plan was tailored to one product as a service to state and local transportation officials the report was expanded to provide guidelines that can be adapted for use with other types of sound wall systems *Development of LRFD Specifications for Horizontally Curved Steel Girder Bridges* J. M. Kulicki,National Cooperative Highway Research Program,2006 This report contains the findings of research performed to develop design specifications for horizontally curved steel girder bridges

Federal-aid Policy Guide ,1995 *Engineering Construction Specifications* J. Goldbloom,2012-12-06 For the past 25 years Joe Goldbloom and I have conducted a running debate over whether specifications writers engage in the unlawful practice of law Joe s position is that lawyers have no business writing specifications that being the designer s province Having been given the honor to write this foreword I have the opportunity for the last word at least for now Joe Goldbloom and I first met in 1964 while serving together on the ASCE Committee on Contract Administration Joe became my teacher mentor and friend Underlying our good natured debate was the serious issue of the technical qualifications required of a specifications writer As a matter of fact speci fications writing traditionally has fallen in a crack between the two professions Specifications writing typically is neither taught in engineering school nor in law school Engineers are taught how to design

lawyers are taught how to draft contracts Specifications writing requires mastery of the technical elements of design as well as the skills of contract drafting Specifications writing is neither glamorous nor sexy it is often viewed as a necessary evil of the designer s job *Cost-effective Practices for Off-system and Local Interest Bridges* F. W. Klaiber, Terry J. Wipf, Francesco M. Russo, National Cooperative Highway Research Program, 2004 TRB s National Cooperative Highway Research Program NCHRP Synthesis 327 Cost Effective Practices for Off System and Local Interest Bridges examines off system bridge design construction maintenance financing rehabilitation and replacement For this report off system refers to those bridges typically owned and maintained by local agencies and by state agencies on rural and other low volume roads **The Code of**

Federal Regulations of the United States of America, 1989 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government **Code of Federal Regulations** United States. Department of Transportation, 1995 Special edition of the Federal register containing a codification of documents of general applicability and future effect as of April 1 with ancillaries

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 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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