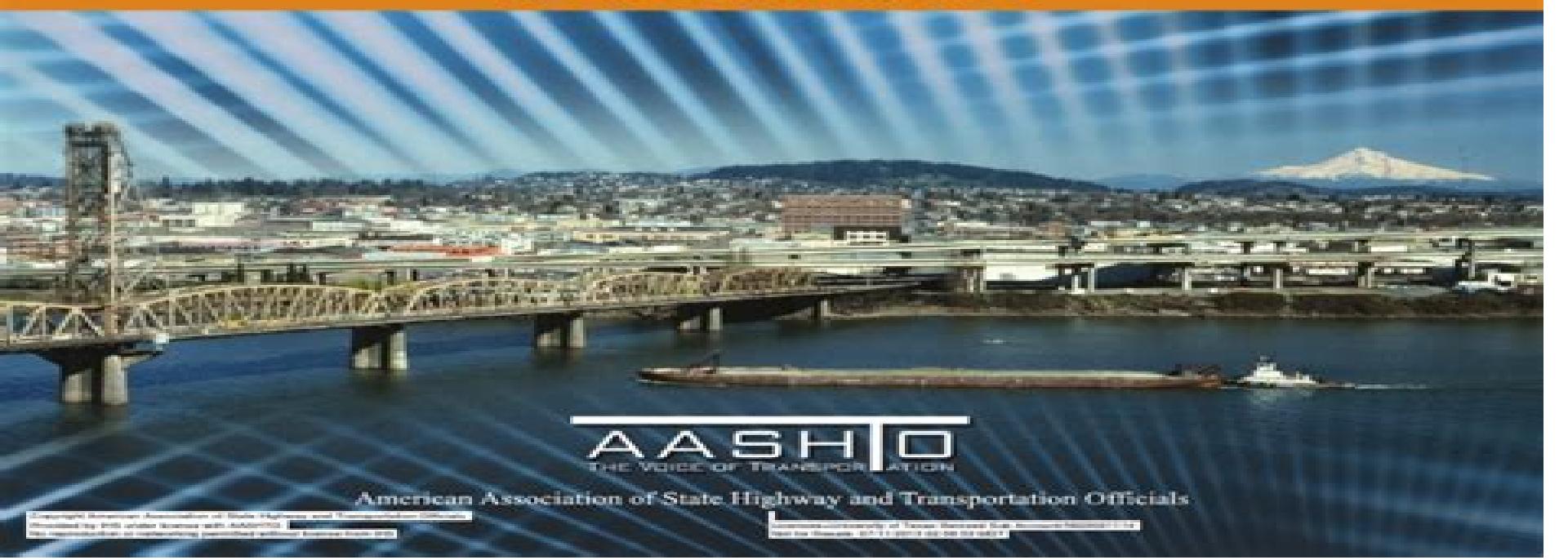




**Guide Specifications and Commentary for  
Vessel Collision  
Design of  
Highway Bridges**

Second Edition, 2009



American Association of State Highway and Transportation Officials

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# Aashto Guide Specifications Vessel Collision

**Byron C. Blaschke**

## **Aashto Guide Specifications Vessel Collision:**

Guide Specifications and Commentary for Vessel Collision Design of Highway Bridges, 2nd Edition, with 2010 Interim Revisions , Vessel Collision Design of Highway Bridges ,2009 Ship Collision Analysis Henrik Gluver,2017-07-12  
Accident records show that sooner or later hindrances near a waterway will be hit by ships be it navigation marks bridge structures reefs or shallows With this background modelling and analysis of ship collisions to bridge structures have an increasing importance as the basis for rational decision making in connection with planning design and construction of bridges over navigable waters The International Symposium on Ship Collision Analysis focuses on advances in accident analysis collision prevention and protective measures The publication Ship Collision Analysis Proceedings of the 1998 International Symposium presents the papers of international experts in ship collision analysis and structural design The contributions give the state of the art and point to future development trends with in the focus areas 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

### **Guide specification and commentary for vessel collision design of highway bridges, 2nd ed., 2009 ,2009**

### **Guide Specification and Commentary for Vessel Collision Design of Highway Bridges. Volume 1. Final Report**

,1991 This Guide Specification establishes the design provisions for bridges crossing navigable waterways to minimize their susceptibility to damage from vessel collisions The purpose of the provisions is to provide bridge components with a reasonable resistance capacity against vessel collision The provisions specified are design values only and should not be interpreted as covering all conceivable cases of vessel collision **AASHTO LRFD Bridge Design Specifications**

American Association of State Highway and Transportation Officials,1994 The provisions of these Specifications are intended for the design evaluation and rehabilitation of both fixed and movable highway bridges Mechanical electrical and special vehicular and pedestrian safety aspects of movable bridges however are not covered Provisions are not included for bridges used solely for railway rail transit or public utilities For bridges not fully covered herein the provisions of these Specifications may be applied as augmented with additional design criteria where required These specifications are not intended to supplant proper training or the exercise of judgment by the Designer and state only the minimum requirements necessary to provide for public safety The Owner or the Designer may require the sophistication of design or the quality of materials and construction to be higher than the minimum requirements The concept of safety through redundancy and ductility and protection against scour and collision are emphasized The design provisions of these Specifications employ the Load and Resistance Factor Design LRFD methodology The factors have been developed from the theory of reliability based upon current statistical knowledge of loads and structural performance Methods of analysis other than those included in previous

Specifications and the modelling techniques inherent in them are included and their use is encouraged. The commentary is not intended to provide a complete historical background concerning the development of these or previous Specifications nor is it intended to provide a detailed summary of the studies and research data reviewed in formulating the provisions of the Specification. However, references to some of the research data are provided for those who wish to study the background material in depth. The commentary directs attention to other documents that provide suggestions for carrying out the requirements and intent of these Specifications. However, those documents and this commentary are not intended to be a part of these Specifications.

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**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 *Handbook of Transportation Engineering Volume II, 2e* Myer Kutz, 2011-03-08 The definitive transportation engineering resource fully revised and updated The two volume *Handbook of Transportation Engineering* Second Edition offers practical comprehensive coverage of the entire transportation engineering field. Featuring 18 new chapters and contributions from nearly 70 leading experts this authoritative work discusses all types of transportation systems freight passenger air rail road marine and pipeline and provides problem solving engineering planning and design tools and techniques with examples of successful applications Volume II focuses on applications in automobile and non automobile transportation and on safety and environmental issues VOLUME II COVERS Traffic engineering analysis Traffic origin destination estimation Traffic congestion Highway capacity Traffic control systems freeway management and communications Traffic signals Highway sign visibility Transportation lighting Geometric design of streets and highways Intersection and interchange design Pavement engineering flexible and rigid pavements Pavement testing and evaluation Bridge engineering Tunnel engineering Pedestrians Bicycle transportation Spectrum of automated guideway transit AGT and its applications Railway vehicle engineering Railway track design Improvement of railroad yard operations Modern aircraft design techniques Airport design Air traffic control systems design Ship design Pipeline engineering Traffic safety Transportation hazards Hazardous materials transportation Incident management Network security and survivability Optimization of emergency evacuation plans Transportation noise issues Air quality issues in transportation Transportation and climate change **Structural Steel Designer's Handbook, Sixth Edition** Roger L. Brockenbrough, 2019-10-25 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 A fully updated source for structural steel design information Thoroughly revised for the latest advances this comprehensive resource contains information essential to the design of steel structures The book lays out the fundamentals of structural steel fabrication and erection followed by detailed design methods for steel beams columns tension components roof systems and connections Design examples throughout the book clearly demonstrate how to apply complex code provisions in the field

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