

AASHTO Publications Catalog



BRIDGES AND STRUCTURES



AASHTO Publications Catalog

Bridges & Structures

AASHTO publishes numerous technical standards and guidelines through the work of the association's technical committees, whose members are comprised of representatives from the state departments of transportation, the nation's transportation experts. AASHTO standards and guidelines are utilized by transportation agencies across the nation and worldwide.

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BRIDGES & STRUCTURES

BRIDGE DESIGN

LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION

Item Code: LRFDBDS-9



The *AASHTO LRFD Bridge Design Specifications* are intended for use in the design, evaluation, and rehabilitation of bridges. The specifications employ the Load and Resistance Factor Design (LRFD) methodology, using factors developed from current statistical knowledge of loads and structural performance. This 9th edition, which supersedes the 2017 8th edition, includes revisions to almost all sections of the specifications. **2020. 1,912 pp.**

PDF DOWNLOAD Code: LRFDBDS-9-UL | List Price: \$714 | Member Price: \$529

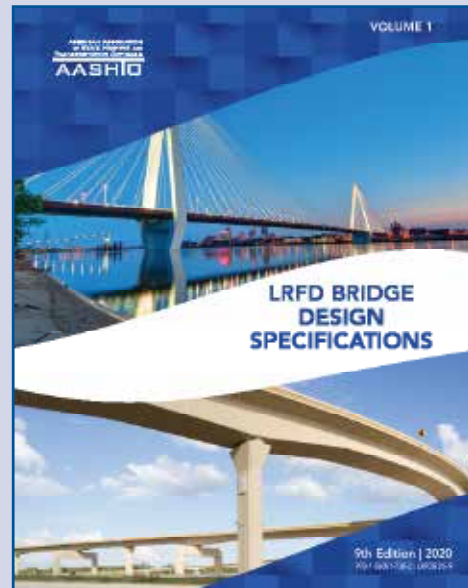
LOOSELEAF Code: LRFDBDS-9 | List Price: \$893 | Member Price: \$661

LOOSELEAF & PDF COMBO Code: LRFDBDS-9-PUL | List Price: \$1,250 | Member Price: \$926

5-USER PDF DOWNLOAD Code: LRFDBDS-9-IP5 | List Price: \$3,035 | Member Price: \$2,248

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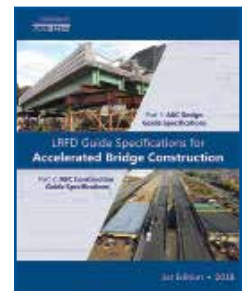


LRFD GUIDE SPECIFICATIONS FOR ACCELERATED BRIDGE CONSTRUCTION, 1ST EDITION

Item Code: ABC-1

These guide specifications compile the growing body of recommended design and construction specifications for prefabricated bridge elements and systems for accelerated bridge construction, with a focus on constructability and durability. **2018. 225 pp.**

PDF DOWNLOAD Code: ABC-1-UL | List Price: \$297 | Member Price: \$220



GUIDE DESIGN SPECIFICATIONS FOR BRIDGE TEMPORARY WORKS, 2ND EDITION, WITH 2020 INTERIM REVISIONS

Item Code: GSBTW-2

These design specifications reflect the current state of the practice for the design and construction of falsework, formwork, and temporary retaining structures. **2017. 113 pp.**

PDF DOWNLOAD Code: GSBTW-2-UL | List Price: \$149 | Member Price: \$110

Interim Revisions Available Separately



BRIDGE DESIGN (CONT'D)

GUIDE SPECIFICATIONS FOR WIND LOADS ON BRIDGES DURING CONSTRUCTION, 1ST EDITION

Item Code: GSWLB-1

These guide specifications establish minimum requirements for wind loads on bridges during construction before a deck is placed. The wind loads determined using these specifications are to be used for checking bridge girders, temporary and permanent bracing, and the permanent substructure during the erection of the girders and up to the time of placement of the deck. All other aspects of the design are to be performed in accordance to the *AASHTO LRFD Bridge Design Specifications* or as specified as appropriate by the bridge owner.

2017. 26 pp.

PDF DOWNLOAD Code: GSWLB-1-UL | List Price: \$73 | Member Price: \$54



BRIDGE SECURITY GUIDELINES, 2ND EDITION

Item Code: BSG-2

These guidelines offer guidance on bridge design for human-induced extreme events. It provides 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. This second edition includes additional resources for identifying potential solutions to mitigate risk from other intentional hazards. This 2022 2nd edition supersedes the first edition, published in 2011. 2022. 90 pp.

PDF DOWNLOAD Code: BSG-2-UL | List Price: \$112 | Member Price: \$83

5-USER PDF DOWNLOAD Code: BSG-2-IP5 | List Price: \$476 | Member Price: \$353

10-USER PDF DOWNLOAD Code: BSG-2-IP10 | List Price: \$840 | Member Price: \$623



SPECIALTY BRIDGE DESIGN

AASHTO LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS, 2ND EDITION, WITH 2008, 2010, 2011, 2012, 2014, AND 2015 INTERIM REVISIONS

Item Code: LRFDMOV-2-M

These specifications address the design of movable highway bridges, including bascule span, swing span, and vertical lift bridges. They include information on the design of bridge spans, mechanical systems, electrical systems, and bridge protection systems, as well as information on seismic analysis and vessel impact analysis.

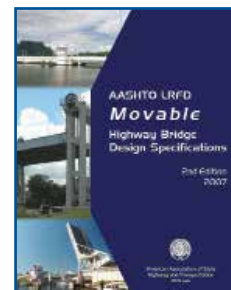
2007. 336 pp.

PDF DOWNLOAD Code: LRFDMOV-2-M-UL | List Price: \$261 | Member Price: \$193

LOOSELEAF Code: LRFDMOV-2-M | List Price: \$326 | Member Price: \$241

LOOSELEAF & PDF COMBO Code: LRFDMOV-2-M-PUL | List Price: \$456 | Member Price: \$338

Interim Revisions Available Separately



GUIDE FOR DESIGN AND CONSTRUCTION OF NEAR-SURFACE MOUNTED TITANIUM ALLOY BARS FOR STRENGTHENING CONCRETE STRUCTURES, 1ST EDITION

Item Code: NSMT-1

This guide provides design and construction recommendations for strengthening existing reinforced concrete structures with titanium alloy bars (TiABs), using the near-surface mounted (NSM) construction method. The overall approach and organization of the guide are based on those presented in ACI 440.2R (ACI, 2017). Design recommendations provided for shear and flexural strengthening are based on and adapted from the *AASHTO LRFD Bridge Design Specifications*. The recommendations are supported by experimental and analytical research, as well as field experiences that have demonstrated the application of TiABs for strengthening full-scale specimens typical of bridge girders. The available experimental evidence includes the influences of combined high-cycle fatigue and environmental durability on the structural performance of NSM-TiAB strengthened girders. 2020. 48 pp.

PDF DOWNLOAD Code: NSMT-1-UL | List Price: \$81 | Member Price: \$60



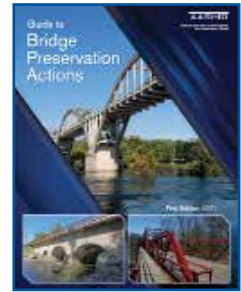
SPECIALTY BRIDGE DESIGN (CONT'D)

GUIDE TO BRIDGE PRESERVATION ACTIONS, 1ST EDITION

Item Code: BPA-1

This guide is intended to offer guidance on selecting specific, cost effective preservation and maintenance actions and treatments for agencies wishing to extend service life and estimate needed budgets to optimize performance of bridge inventories. It can be used to help preserve bridges and extend their service life by selecting cost effective actions and treatments for various bridge elements based on exposure. **2021. 375 pp.**

PDF DOWNLOAD Code: BPA-1-UL | List Price: \$482 | Member Price: \$357
5-USER PDF DOWNLOAD Code: BPA-1-IP5 | List Price: \$2,048 | Member Price: \$1,517
10-USER PDF DOWNLOAD Code: BPA-1-IP10 | List Price: \$3,615 | Member Price: \$2,678



GUIDE SPECIFICATION FOR SERVICE LIFE DESIGN OF HIGHWAY BRIDGES, 1ST EDITION

Item Code: HBSLD-1

This guide specification is intended to offer design recommendations for agencies wishing to implement service life design principles and detailing recommendations. It was developed to incorporate quantitative approaches, along with proven deemed-to-satisfy provisions, into a single comprehensive design document for implementation on a national level. It also establishes a framework for service life design, while providing opportunities for refinement and expansion, especially as new models capable of simulating deterioration mechanisms become available. **2020. 193 pp.**

PDF DOWNLOAD Code: HBSLD-1-UL | List Price: \$252 | Member Price: \$187
5-USER PDF DOWNLOAD Code: HBSLD-1-IP5 | List Price: \$1,073 | Member Price: \$795
10-USER PDF DOWNLOAD Code: HBSLD-1-IP10 | List Price: \$1,893 | Member Price: \$1,403

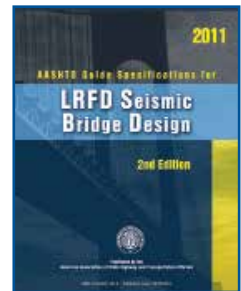


AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, 2ND EDITION, WITH 2012, 2014, 2015 AND 2022 INTERIM REVISIONS

Item Code: LRFDSEIS-2-M

These guide specifications cover seismic design for typical bridge types and apply to non-critical and non-essential bridges. They are approved as an alternative to the seismic provisions included in the *AASHTO LRFD Bridge Design Specifications*, differing in the use of displacement-based design procedures, instead of the traditional force-based R-Factor method. The specifications include detailed guidance on earthquake-resistant elements and systems, global design strategies, demand modelling, capacity calculation, and liquefaction effects. **2011. 331 pp.**

PDF DOWNLOAD Code: LRFDSEIS-2-UL | List Price: \$252 | Member Price: \$187
LOOSELEAF Code: LRFDSEIS-2-M | List Price: \$316 | Member Price: \$234
LOOSELEAF & PDF COMBO Code: LRFDSEIS-2-PUL | List Price: \$442 | Member Price: \$327



2022 INTERIM REVISIONS NOW AVAILABLE.

Revisions Available Separately

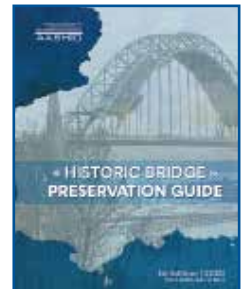
Interim

HISTORIC BRIDGE PRESERVATION GUIDE, 1ST EDITION

Item Code: HBP-1

The Historic Bridge Preservation Guide is a reference for the preservation and rehabilitation of both fixed and movable historic highway bridges. Historic preservation laws present a unique set of challenges when maintaining bridges, and balancing cultural and historic value with functional safety characteristics requires specialized knowledge and processes. This guide aims to familiarize all engineers with the unique and diverse skills needed for successful historic bridge preservation and rehabilitation projects. **2020. 133 pp.**

PDF DOWNLOAD Code: HBP-1-UL | List Price: \$171 | Member Price: \$127
5-USER PDF DOWNLOAD Code: HBP-1-IP5 | List Price: \$729 | Member Price: \$540
10-USER PDF DOWNLOAD Code: HBP-1-IP10 | List Price: \$1,286 | Member Price: \$953



SPECIALTY BRIDGE DESIGN (CONT'D)

GUIDE SPECIFICATIONS FOR SEISMIC ISOLATION DESIGN, 4TH EDITION

Item Code: GSID-4

These guide specifications address major changes in the state of the art of seismic isolation design for highway bridges and reflect changes in the way seismic hazard is defined in the *AASHTO LRFD Bridge Design Specifications* and the *AASHTO Guide Specifications for LRFD Seismic Bridge Design*. The specifications include industry trends in the design and construction of isolators, and provisions in the design specifications that impact the design and testing of isolation bearings. **2014. 482 pp.**

PDF DOWNLOAD Code: GSID-4-UL | List Price: \$297 | Member Price: \$220

LOOSELEAF Code: GSID-4 | List Price: \$371 | Member Price: \$275

LOOSELEAF & PDF COMBO Code: GSID-4-PUL | List Price: \$520 | Member Price: \$385



LRFD GUIDE SPECIFICATIONS FOR BRIDGES CARRYING LIGHT RAIL TRANSIT LOADS, 2ND EDITION

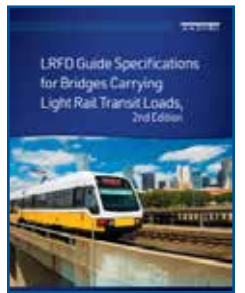
Item Code: GSLR-2

These guide specifications address the design of bridges subjected to light rail transit (LRT) loadings, or both LRT and conventional highway traffic loadings. This second edition provides additional definitions common to the rail industry, and clarifies the application of live loading and derailment loading. It also revises language to improve consistency with the AASHTO LRFD Bridge Design Specifications, 9th Edition, with which they are designed to be used. **2022. 39 pp.**

PDF DOWNLOAD Code: GSLR-2-UL | List Price: \$38 | Member Price: \$28

5-USER PDF DOWNLOAD Code: GSLR-2-IP5 | List Price: \$161 | Member Price: \$119

10-USER PDF DOWNLOAD Code: GSLR-2-IP10 | List Price: \$284 | Member Price: \$210



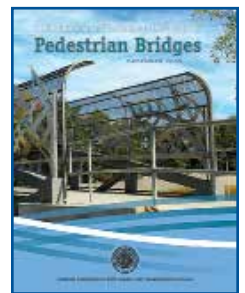
LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION, WITH 2015 INTERIM REVISIONS

Item Code: GSDPB-2

These guide specifications address the design and construction of typical pedestrian bridges that are designed to carry, primarily, pedestrians, bicyclists, equestrian riders, and light maintenance vehicles. **2009. 36 pp.**

PDF DOWNLOAD Code: GSDPB-2-UL | List Price: \$45 | Member Price: \$33

Interim Revisions Available Separately

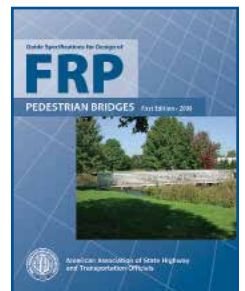


GUIDE SPECIFICATIONS FOR DESIGN OF FRP PEDESTRIAN BRIDGES, 1ST EDITION

Item Code: GSDFPB-1

These guide specifications apply to fiber-reinforced polymer (FRP) composite bridges intended to carry, primarily, pedestrian and bicycle traffic. **2008. 15 pp.**

PDF DOWNLOAD Code: GSDFPB-1-UL | List Price: \$30 | Member Price: \$22



GUIDE SPECIFICATIONS FOR BRIDGES FOR BRIDGES SUBJECT TO TSUNAMI EFFECTS, 1ST EDITION

Item Code: GSBSTE-1

These guide specifications provide methods for estimating the risk posed by tsunamis in new bridge design, and identify accepted methodologies and details to mitigate that risk in design. **2022. 55 pp.**

PDF DOWNLOAD Code: GSBSTE-1-UL | List Price: \$38 | Member Price: \$28

5-USER PDF DOWNLOAD Code: GSBSTE-1-IP5 | List Price: \$161 | Member Price: \$119

10-USER PDF DOWNLOAD Code: GSBSTE-1-IP10 | List Price: \$284 | Member Price: \$210



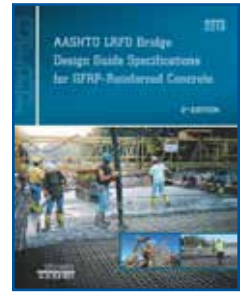
SPECIALTY BRIDGE DESIGN (CONT'D)

AASHTO LRFD BRIDGE DESIGN GUIDE SPECIFICATIONS FOR GFRP-REINFORCED CONCRETE, 2ND EDITION

Item Code: GFRP-2

These guide specifications offer a description of the unique material properties of glass fiber-reinforced polymer (GFRP) composite materials, as well as provisions for the design and construction of concrete bridge decks and railings reinforced with GFRP reinforcing bars. The specifications include information on the advancements in material specifications; new knowledge and field experiences beyond bridge decks and traffic railings; greater consistency with the *AASHTO LRFD Bridge Design Specifications*, 8th Edition; consideration of flexural members, such as girders and bent caps; consideration of substructure and foundation elements, along with compression members; differentiation between the fatigue and creep limit states; and revised shear design methodology. **2018. 121 pp.**

PDF DOWNLOAD Code: GFRP-2-UL | List Price: \$149 | Member Price: \$110

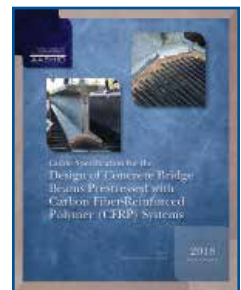


GUIDE SPECIFICATIONS FOR THE DESIGN OF CONCRETE BRIDGE BEAMS PRESTRESSED WITH CARBON FIBER-REINFORCED POLYMER (CFRP) SYSTEMS, 1ST EDITION

Item Code: CFRP-1

These guide specifications apply to the design of prestressed concrete beams constructed of normal weight concrete and prestressed by carbon fiber-reinforced polymer (CFRP) prestressing systems. **2018. 70 pp.**

PDF DOWNLOAD Code: CFRP-1-UL | List Price: \$57 | Member Price: \$42

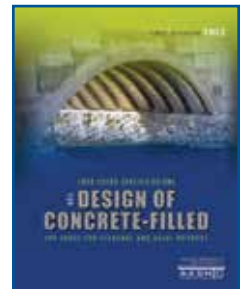


AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF CONCRETE-FILLED FRP TUBES, 1ST EDITION

Item Code: LRFDFRP-1

These guide specifications present provisions for the analysis and design of concrete-filled fiber-reinforced polymer (FRP) tubes (CFFT) for use as structural components in bridges. Design methodology allows CFFTs to be designed as flexural members, axial compression members, or members subjected to combined flexural and axial compression, in addition to shear. CFFT bridge components may include beams, arches, columns, and piles. **2012. 43 pp.**

PDF DOWNLOAD Code: LRFDFRP-1-UL | List Price: \$36 | Member Price: \$27



GUIDE SPECIFICATIONS FOR DESIGN OF BONDED FRP SYSTEMS FOR REPAIR AND STRENGTHENING OF CONCRETE BRIDGE ELEMENTS, 1ST EDITION

Item Code: FRPS-1

These guide specifications are intended for the repair and strengthening of reinforced and prestressed highway bridge structures using externally bonded fiber-reinforced polymer (FRP) composite systems. **2012. 45 pp.**

PDF DOWNLOAD Code: FRPS-1-UL | List Price: \$53 | Member Price: \$39

Interim Revisions Available Separately



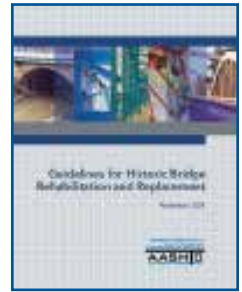
SPECIALTY BRIDGE DESIGN (CONT'D)

[GUIDELINES FOR HISTORIC BRIDGE REHABILITATION AND REPLACEMENT, 1ST EDITION](#)

Item Code: GHBRR-1

These guidelines present findings of a survey on the current state of historic bridge rehabilitation or replacement decision making by state and local transportation agencies, and nationally applicable decision-making guidelines for historic bridges. The guidelines are intended to be used as the protocol for defining when rehabilitation of historic bridges can be considered prudent and feasible and when it is not based on engineering and environmental data and judgments. The guidelines include identification of various approaches to bringing historic bridges into conformance with current design and safety guidelines/standards, and the effect or implications of remedial action on historical significance. **2008. 64 pp.**

PDF DOWNLOAD Code: GHBRR-1-OL | This is a FREE publication.

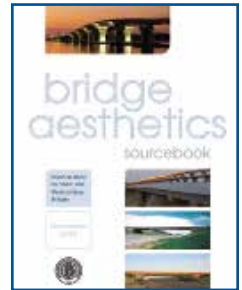


[BRIDGE AESTHETICS SOURCEBOOK, 1ST EDITION](#)

Item Code: BAS-1

This sourcebook provides guidelines for improving the appearance of short- to medium-span bridges. The public is becoming ever more aware of the appearance of bridges and the effects they have in their communities. Every structural decision is an aesthetic decision. If a decision affects the size, shape, color, or surface texture of a visible part of the bridge, it affects how people will feel about the bridge appearing in their community. **2010. 64 pp.**

PDF DOWNLOAD Code: BAS-1-UL | List Price: \$16 | Member Price: \$12



[GUIDE SPECIFICATIONS FOR BRIDGES VULNERABLE TO COASTAL STORMS, 1ST EDITION](#)

Item Code: BVCS-1

These guide specifications contain comprehensive information on the design of bridges vulnerable to coastal storms. The methods for calculating wave forces on superstructures are based, primarily, on numerical simulation of the state of pressure, velocity, and acceleration within the water as a wave passes under or over bridge cross sections. Coefficients needed for the numerical simulation process, known as the Physics Based Method (PBM), were developed through physical wave tank tests. Also included are current-induced forces guidelines that were the results of research conducted at the Turner-Fairbank Highway Research Center. **2008. 63 pp.**

PDF DOWNLOAD Code: BVCS-1-UL | List Price: \$32 | Member Price: \$24



[AASHTO/AWS D1.5M/D1.5:2020 BRIDGE WELDING CODE, 8TH EDITION](#)

Item Code: BWC-8

This code covers welding requirements for bridges made from carbon and low-alloy constructional steels and designed to AASHTO or AREMA requirements. This 2020 edition contains dimensions in metric SI Units and U.S. Customary Units. **2020. 508 pp.**

Paperback Code: BWC-8 | List Price: \$440 | Member Price: \$330

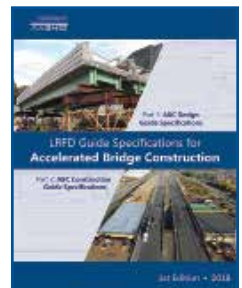


[LRFD GUIDE SPECIFICATIONS FOR ACCELERATED BRIDGE CONSTRUCTION, 1ST EDITION](#)

Item Code: ABC-1

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PDF DOWNLOAD Code: ABC-1-UL | List Price: \$297 | Member Price: \$220



BRIDGE CONSTRUCTION

AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4TH EDITION, WITH 2020 AND 2022 INTERIM REVISIONS

Item Code: LRFDCONS-4-M



These specifications are intended for use in the construction of bridges and employ the Load and Resistance Factor Design (LRFD) methodology. They are designed to be used in conjunction with the *AASHTO LRFD Bridge Design Specifications*. This 2017 4th edition supersedes the 2010 3rd edition. **2017. 566 pp.**

PDF DOWNLOAD Code: LRFDCONS-4-UL | List Price: \$466 | Member Price: \$345

LOOSELEAF Code: LRFDCONS-4-M | List Price: \$582 | Member Price: \$431

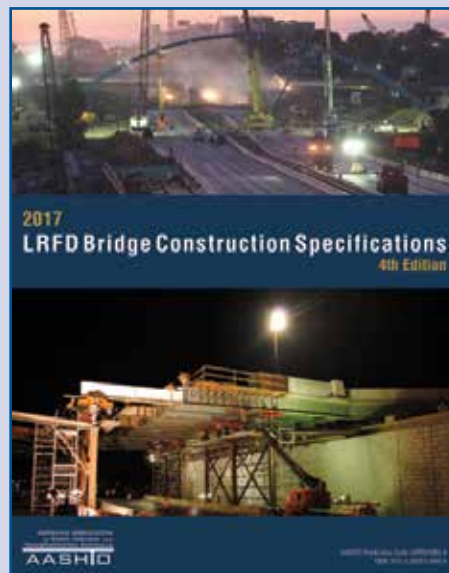
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Interim Revisions Available Separately



GUIDE DESIGN SPECIFICATIONS FOR BRIDGE TEMPORARY WORKS, 2ND EDITION, WITH 2020 INTERIM REVISIONS

Item Code: GSBTW-2

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PDF DOWNLOAD Code: GSBTW-2-UL | List Price: \$149 | Member Price: \$110

Interim Revisions Available Separately

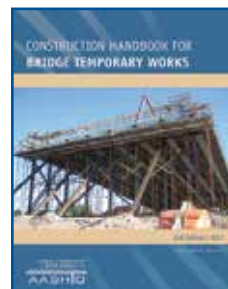


CONSTRUCTION HANDBOOK FOR BRIDGE TEMPORARY WORKS, 2ND EDITION

Item Code: CHBTW-2

This handbook focuses on standards of material quality, and means and methods of construction. It also contains information on falsework, formwork, and temporary retaining structures. It supplements the information in the *Guide Design Specifications for Bridge Temporary Works*. **2017. 155 pp.**

PDF DOWNLOAD Code: CHBTW-2-UL | List Price: \$193 | Member Price: \$143



BRIDGE CONSTRUCTION (CONT'D)

GUIDE SPECIFICATIONS FOR WIND LOADS ON BRIDGES DURING CONSTRUCTION, 1ST EDITION

Item Code: GSWLB-1

These guide specifications establish minimum requirements for wind loads on bridges during construction before a deck is placed. The wind loads determined using these specifications are to be used for checking bridge girders, temporary and permanent bracing, and the permanent substructure during the erection of the girders and up to the time of placement of the deck. All other aspects of the design are to be performed in accordance to the *AASHTO LRFD Bridge Design Specifications* or as specified as appropriate by the bridge owner. **2017. 26 pp.**

PDF DOWNLOAD Code: GSWLB-1-UL | List Price: \$73 | Member Price: \$54



GUIDE FOR DESIGN AND CONSTRUCTION OF NEAR-SURFACE MOUNTED TITANIUM ALLOY BARS FOR STRENGTHENING CONCRETE STRUCTURES, 1ST EDITION

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PDF DOWNLOAD Code: NSMT-1-UL | List Price: \$81 | Member Price: \$60



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STRUCTURAL INSPECTION AND EVALUATION

MANUAL FOR BRIDGE EVALUATION, 3RD EDITION, WITH 2020 INTERIM REVISIONS

Item Code: MBE-3



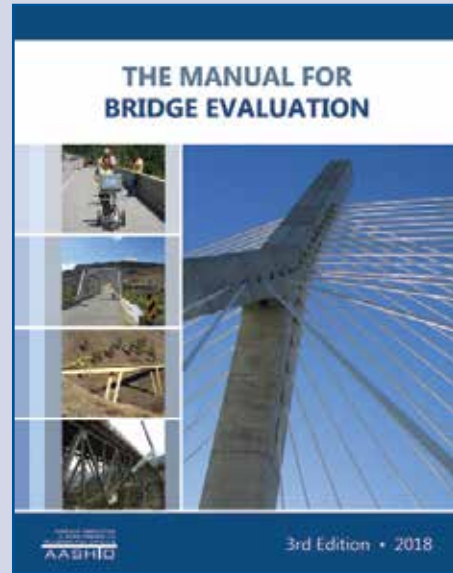
This manual has been developed to assist bridge owners by establishing inspection procedures and evaluation practices that meet the National Bridge Inspection Standards (NBIS). The manual is divided into eight sections, each representing a distinct phase of an overall bridge inspection and evaluation program. This 2018 3rd edition supersedes the 2011 2nd edition. **2018. 688 pp.**

PDF DOWNLOAD Code: MBE-3-UL | List Price: \$464 | Member Price: \$344

LOOSELEAF Code: MBE-3 | List Price: \$581 | Member Price: \$430

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Interim Revisions Available Separately



CULVERT AND STORM DRAIN SYSTEM INSPECTION GUIDE, 1ST EDITION

Item Code: CSDIM-1

This guide provides Inspectors with guidelines for routine condition assessment of culverts or storm drains, including all components in their systems. The criteria herein provide a reliable and reproducible method to rate the condition of system components. The guide is a useful resource to agencies developing and conducting culvert and storm drain inspection programs, as well as developing a transportation asset management plan for culvert and storm drain system inventories. **2020. 288 pp.**

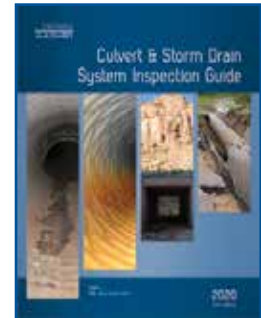
PDF DOWNLOAD Code: CSDIM-1-UL | List Price: \$312 | Member Price: \$231

LOOSELEAF Code: CSDIM-1 | List Price: \$390 | Member Price: \$289

LOOSELEAF & PDF COMBO Code: CSDIM-1-PUL | List Price: \$546 | Member Price: \$404

5-USER PDF DOWNLOAD Code: CSDIM-1-IP5 | List Price: \$1,325 | Member Price: \$982

10-USER PDF DOWNLOAD Code: CSDIM-1-IP10 | List Price: \$2,339 | Member Price: \$1,733



STRUCTURAL INSPECTION AND EVALUATION (CONT'D)

MANUAL FOR BRIDGE ELEMENT INSPECTION, 2ND EDITION

Item Code: MBEI-2

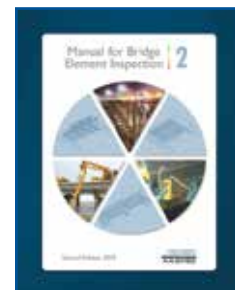
This manual is a reference for standardized element definitions, element quantity calculations, condition state definitions, element feasible actions, and inspection conventions. Its goal is to capture the condition of bridges in a simple, effective way that can be standardized nationwide, while providing enough flexibility to be adapted by both large and small agencies. It is designed for use by state departments of transportation and other agencies that perform element-level bridge inspections. **2019. 124 pp.**

PDF DOWNLOAD Code: MBEI-2-UL | List Price: \$149 | Member Price: \$110

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25-USER PDF DOWNLOAD Code: MBEI-2-IP25 | List Price: \$2,599 | Member Price: \$1,925



MOVABLE BRIDGE INSPECTION, EVALUATION, AND MAINTENANCE MANUAL, 2ND EDITION

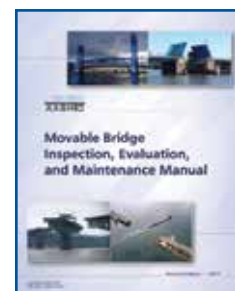
Item Code: MBI-2

This manual presents uniform guidelines and procedures pertaining to the structural, mechanical, electrical, and operational characteristics unique to movable highway bridges. This 2018 3rd edition supersedes the 2011 2nd edition. **2017. 560 pp.**

PDF DOWNLOAD Code: MBI-2-UL | List Price: \$475 | Member Price: \$352

LOOSELEAF Code: MBI-2 | List Price: \$594 | Member Price: \$440

LOOSELEAF & PDF COMBO Code: MBI-2-PUL | List Price: \$832 | Member Price: \$616



GUIDE SPECIFICATIONS FOR INTERNAL REDUNDANCY OF MECHANICALLY-FASTENED BUILT-UP STEEL MEMBERS, 1ST EDITION, WITH 2022 INTERIM REVISIONS

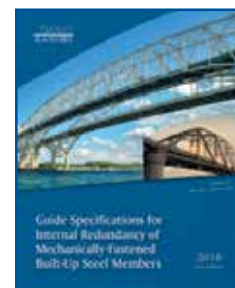
Item Code: GSBSM-1-UL

These guide specifications are intended to provide an analytical framework to evaluate the internal redundancy of typical steel bridge members and designate primary steel members as Fracture Critical Members (FCMs) or Internally Redundant Members (IRMs). They describe a procedure for evaluating the internal redundancy of the built-up tension members of the tension components of flexural members and axially loaded tension members. The guide specifications also include a methodology to establish the interval for inspections specifically intended to identify whether any of the tension components have failed—a major departure from the current calendar-based approach to setting inspection intervals. **2018. 149 pp.**

PDF DOWNLOAD Code: GSBSM-1-UL | List Price: \$59 | Member Price: \$44

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OTHER STRUCTURAL DESIGN

GUIDE SPECIFICATIONS FOR ANALYSIS AND IDENTIFICATION OF FRACTURE CRITICAL MEMBERS AND SYSTEM REDUNDANT MEMBERS, 1ST EDITION, WITH 2022 INTERIM REVISIONS

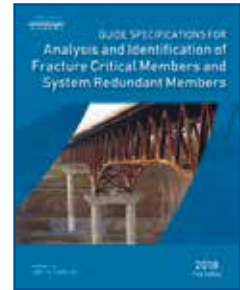
Item Code: GSFCM-1-UL

These guide specifications provide standards and procedures on how best to perform a system analysis to determine performance and response in the event a Fracture Critical Member is assumed to have failed. These assessment procedures apply to typical steel bridges, including simple span and continuous I-girder and tub girder bridges, through-girder bridges, truss bridges, and tied arch bridges. **2018. 57 pp.**

PDF DOWNLOAD Code: GSFCM-1-UL | List Price: \$69 | Member Price: \$51

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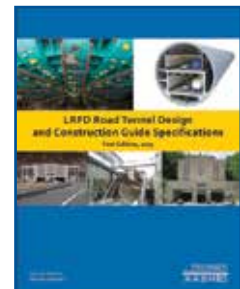


LRFD ROAD TUNNEL DESIGN AND CONSTRUCTION GUIDE SPECIFICATIONS, 1ST EDITION

Item Code: LRFDTUN-1

These guide specifications are intended for the design, evaluation, and rehabilitation of highway tunnels, and for the design of tunnels constructed using cut-and-cover, bored, mined, and immersed tunnel construction methodologies. **2017. 279 pp.**

PDF DOWNLOAD Code: LRFDTUN-1-UL | List Price: \$335 | Member Price: \$248



TECHNICAL MANUAL FOR DESIGN AND CONSTRUCTION OF ROAD TUNNELS—CIVIL ELEMENTS, 1ST EDITION

Item Code: DCRT-1

This technical manual provides recommendations for the planning, design, construction, and structural rehabilitation and repair of the civil elements of road tunnels, including cut-and-cover tunnels, mines and bored tunnels, immersed tunnels, and jacked box tunnels. **2010. 662 pp.**

PDF DOWNLOAD Code: DCRT-1-UL | List Price: \$223 | Member Price: \$165

LOOSELEAF Code: DCRT-1 | List Price: \$278 | Member Price: \$206

LOOSELEAF & PDF COMBO Code: DCRT-1-PUL | List Price: \$390 | Member Price: \$289



LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 1ST EDITION

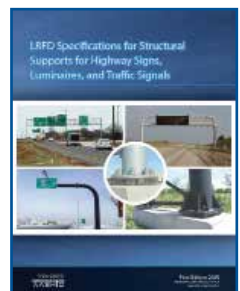
Item Code: LRFDLTS-1

These specifications include current research on LRFD calibration, loads, and resistances. New sections on fabrication, construction, inspection, and asset management have also been added. **2015. 436 pp.**

PDF DOWNLOAD Code: LRFDLTS-1-UL | List Price: \$297 | Member Price: \$220

LOOSELEAF Code: LRFDLTS-1 | List Price: \$371 | Member Price: \$275

LOOSELEAF & PDF COMBO Code: LRFDLTS-1-PUL | List Price: \$520 | Member Price: \$385



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AASHTO and the National Steel Bridge Alliance (NSBA) work together to develop specifications, codes, standards, and policies in an effort to unify the existing diverse requirements governing steel bridge construction.

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[GUIDELINES TO DESIGN FOR CONSTRUCTABILITY AND FABRICATION, 4TH EDITION, G12.1—2020](#)

PDF DOWNLOAD Code: NSBAGDC-4 | Year Published: 2020

[STEEL BRIDGE ERECTION GUIDE SPECIFICATION, 3RD EDITION, S10.1—2019](#)

PDF DOWNLOAD Code: NSBASBEGS-3 | Year Published: 2019

[STEEL BRIDGE FABRICATION QC/QA GUIDELINES, 2ND EDITION, G4.1—2019](#)

PDF DOWNLOAD Code: NSBASBFQC-2 | Year Published: 2019

[GUIDELINES FOR STEEL GIRDER BRIDGE ANALYSIS, 3RD EDITION, G13.1—2019](#)

PDF DOWNLOAD Code: NSBASGBA-3 | Year Published: 2019

[STEEL BRIDGE FABRICATION GUIDE SPECIFICATION, 4TH EDITION, S2.1—2018](#)

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[SPECIFICATION FOR APPLICATION OF THERMAL SPRAY COATING SYSTEMS TO STEEL BRIDGES, 1ST EDITION, S8.2—2017](#)

PDF DOWNLOAD Code: NSBAATSC-1 | Year Published: 2017

[GUIDELINES FOR RESOLUTION OF STEEL BRIDGE FABRICATION ERRORS, 1ST EDITION, G2.2—2016](#)

PDF DOWNLOAD Code: NSBAGRSB-1 | Year Published: 2016

[GUIDE SPECIFICATION FOR APPLICATION OF COATING SYSTEMS WITH ZINC-RICH PRIMERS TO STEEL BRIDGES, 3RD EDITION, S8.1—2014](#)

PDF DOWNLOAD Code: NSBASBCS-3 | Year Published: 2014

[GUIDELINES FOR THE QUALIFICATION OF STRUCTURAL BOLTING INSPECTORS, 2ND EDITION, G4.2—2021](#)

PDF DOWNLOAD Code: NSBAQSBI-2 | Year Published: 2021

[GUIDELINES FOR DESIGN DETAILS, 1ST EDITION, G1.4—2006](#)

PDF DOWNLOAD Code: NSBAGDD-1 | Year Published: 2007

[SAMPLE OWNERS QUALITY ASSURANCE MANUAL, 1ST EDITION, G4.4—2006](#)

PDF DOWNLOAD Code: NSBASOQA-1 | Year Published: 2007

[STEEL BRIDGE BEARING DESIGN AND DETAILING GUIDELINES, 1ST EDITION, G9.1—2004](#)

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[SHOP DETAIL DRAWING PRESENTATION GUIDELINES, 1ST EDITION, G1.3—2002](#)

PDF DOWNLOAD Code: NSBASDDP-1 | Year Published: 2003

[SHOP DESIGN DRAWINGS REVIEW/APPROVAL GUIDELINES, G1.1—2000](#)

PDF DOWNLOAD Code: NSBASDDRAG-1 | Year Published: 2000

[MAINTENANCE GUIDELINES FOR STEEL BRIDGES TO ADDRESS FATIGUE CRACKING AND DETAILS AT RISK OF CONSTRAINT-INDUCED FRACTURE, G14.1—2021](#)

PDF DOWNLOAD Code: NSBAMGFC-1 | Year Published: 2022

STANDARD SPECIFICATIONS

STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION

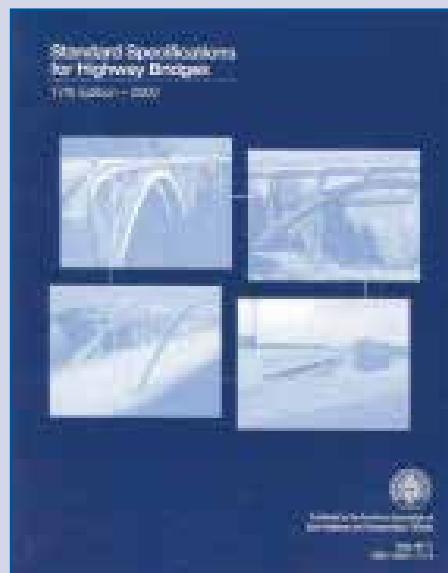
Item Code: HB-17

These standards are designed for the maintenance and rehabilitation of older, existing bridges and related structures, constructed prior to the adoption of the Load and Resistance Factor Design (LRFD) standards. This 2002 17th edition supersedes the 1996 16th edition. **2002. 1,028 pp.**

PDF DOWNLOAD Code: HB-17-UL | List Price: \$335 | Member Price: \$248

PAPERBACK Code: HB-17 | List Price: \$419 | Member Price: \$310

PAPERBACK & PDF COMBO Code: HB-17-PUL | List Price: \$586 | Member Price: \$434



GUIDE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION OF SEGMENTAL CONCRETE BRIDGES, 2ND EDITION, WITH 2003 INTERIM REVISIONS

Item Code: GSCB-2

Developed by a committee organized by the American Segmental Bridge Institute, these guide specifications apply to the design and construction of segmental concrete bridges and are designed to be used in conjunction with the *Standard Specifications for Highway Bridges*. **1999. 92 pp.**

PDF DOWNLOAD Code: GSCB-2-UL | List Price: \$74 | Member Price: \$55

Interim Revisions Also Available Separately



STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION, WITH 2015, 2019, 2020 AND 2022 INTERIM REVISIONS

Item Code: LTS-6-M

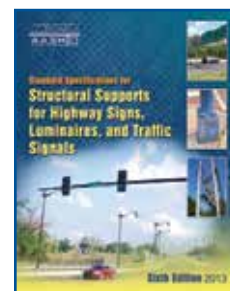
These specifications are a standard for the design, fabrication, and erection of the structural design of supports for highway signs, luminaires, and traffic signals. **2013. 340 pp.**

PDF DOWNLOAD Code: LTS-6-UL | List Price: \$505 | Member Price: \$374

LOOSELEAF Code: LTS-6-M | List Price: \$631 | Member Price: \$468

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