

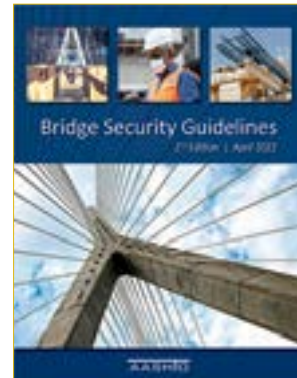
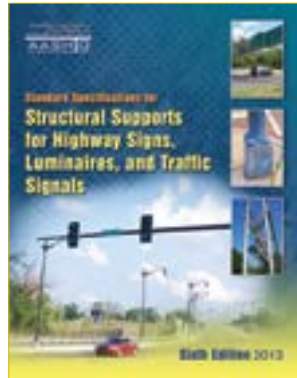
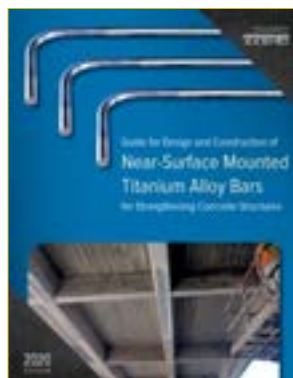
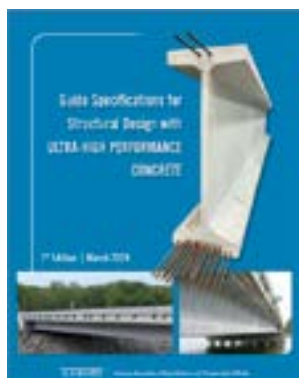
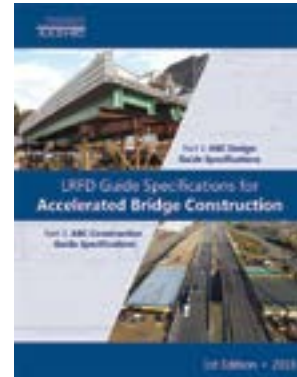
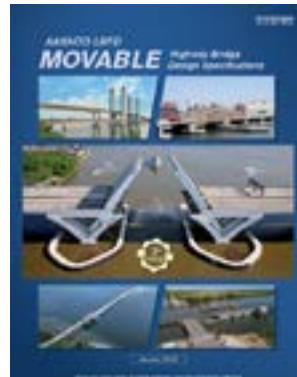
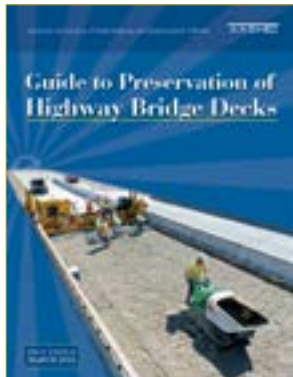
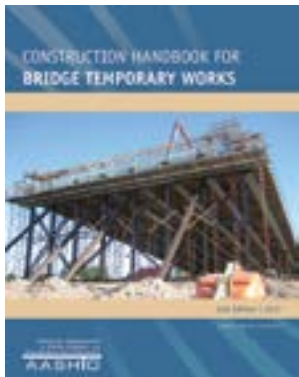
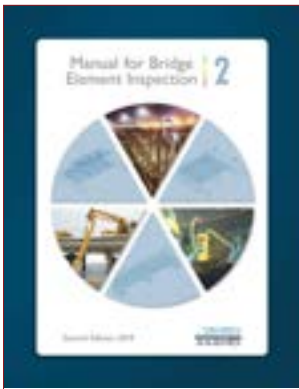
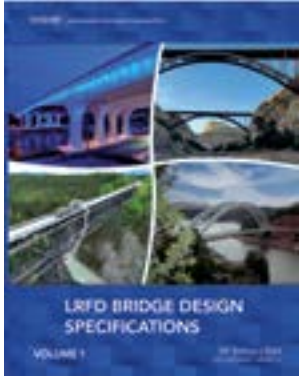
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Bridges & Structures 4

Materials & Pavement 22

Construction & Right-of-Way 25

Maintenance..... 26

Safety28

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AASHTO-NSBA STEEL BRIDGE COLLABORATION

AASHTO and the National Steel Bridge Alliance (NSBA) have collaborated to develop publications related to steel bridge construction. **AASHTO–NSBA Steel Bridge Collaboration publications are available to download, free of charge, from the AASHTO Store.**

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BRIDGES & STRUCTURES

BRIDGE DESIGN

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 10TH EDITION

Item Code: LRFDBDS-10

These 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 edition includes updates to almost all sections, with extensive revisions made to Section 5, Concrete Structures; Section 6, Steel Structures; and Section 3, Loads and Load Factors. **2024. 1,905 pp.**

PDF DOWNLOAD Code: LRFDBDS-10-UL | List Price: \$714 | Member Price: \$529

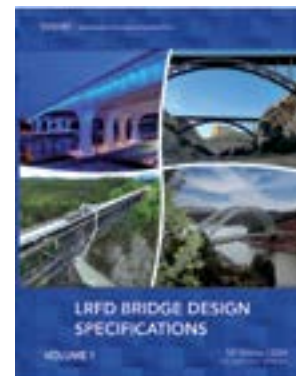
LOOSELEAF Code: LRFDBDS-10 | List Price: \$893 | Member Price: \$661

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10-USER PDF DOWNLOAD Code: LRFDBDS-10-IP10 | List Price: \$5,356 | Member Price: \$3,968

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BRIDGE SECURITY GUIDELINES, 2ND EDITION

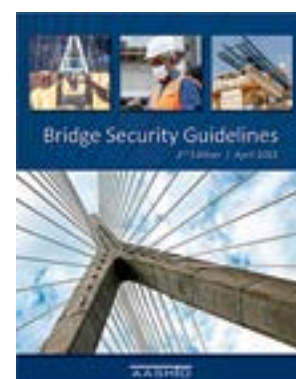
Item Code: BSG-2

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. **2022. 101 pp.**

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

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

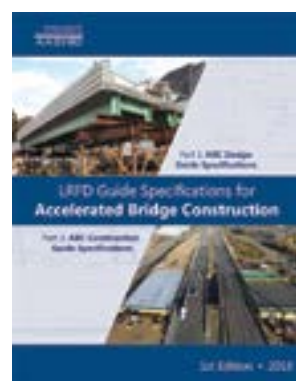


LRFD GUIDE SPECIFICATIONS FOR ACCELERATED BRIDGE CONSTRUCTION, 1ST EDITION

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

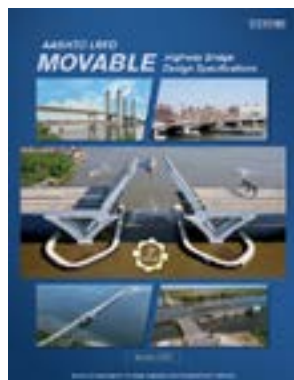
These design specifications reflect the current state of the practice for the design and construction of falsework, formwork, and temporary retaining structures. **2017. 113 pp. (Interim Revisions Available Separately)**

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



BRIDGES & STRUCTURES

SPECIALTY BRIDGE DESIGN



AASHTO LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS, 3RD EDITION

Item Code: LRFDMOV-3

This publication provides comprehensive LRFD design specifications for highway movable bridges, including structural, seismic, vessel collision, mechanical, hydraulic, and electrical design, as well as establishes requirements for movable bridge operation and control. The specifications cover several types of movable bridges, including bascule, swing, and vertical lift. It includes the development and implementation of a consistent reliability-based methodology that is applied to machinery design and elsewhere, where practicable; optional site-specific wind loading, applied at the owners discretion; guidelines for operation of movable bridges from remote locations; and general updates to industry specification and code references, and material specification references. **2023. 311 pp.**

PDF DOWNLOAD Code: LRFDMOV-3-UL | List Price: \$351 | Member Price: \$260

5-USER PDF DOWNLOAD Code: LRFDMOV-3-IP5 | List Price: \$1,492 | Member Price: \$1,105

10-USER PDF DOWNLOAD Code: LRFDMOV-3-IP10 | List Price: \$2,663 | Member Price: \$1,950



AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, 3RD EDITION

Item Code: LRFDSEIS-3

These guide specifications have been developed for use in the design and construction of conventional bridges to resist the effects of earthquake motions. They have been approved as an alternative to the seismic provisions in the *AASHTO LRFD Bridge Design Specifications* and differ from those provisions in the use of displacement-based design procedures, rather than the traditional force-based R-Factor method. **2023. 295 pp.**

PDF DOWNLOAD Code: LRFDSEIS-3-UL | List Price: \$392 | Member Price: \$290

5-USER PDF DOWNLOAD Code: LRFDSEIS-3-IP5 | List Price: \$1,664 | Member Price: \$1,233

10-USER PDF DOWNLOAD Code: LRFDSEIS-3-IP10 | List Price: \$2,936 | Member Price: \$2,175



GUIDELINES FOR PERFORMANCE-BASED SEISMIC DESIGN OF HIGHWAY BRIDGES, 1ST EDITION

Item Code: GPBSD-1

These guidelines represent the first implementation of performance-based seismic design for bridges in the United States, and its goal is to provide bridge designers and owners with a methodology for selecting the appropriate level of performance for a given bridge and implementing a design process that will, reasonably, result in achieving that level of performance under the design ground motions. **2023. 186 pp.**

PDF DOWNLOAD Code: GPBSD-1-UL | List Price: \$243 | Member Price: \$180

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GUIDE SPECIFICATIONS FOR SEISMIC ISOLATION DESIGN, 4TH EDITION, WITH 2023 INTERIM REVISIONS

Item Code: GSID-4-M

These Guide Specifications address major changes in the way seismic hazard is defined in the United States, as well as changes in the state of the art of seismic isolation design for highway bridges. It reflects changes in the definition of the seismic hazard as now defined in the *AASHTO LRFD Bridge Design Specifications* and the *Guide Specifications for LRFD Seismic Bridge Design*, industry trends in the design and construction of isolators, and provisions in the design specifications that impact the design and testing of isolation bearings. **2023. 186 pp. (Interim Revisions Available Separately)**

LOOSELEAF Code: GSID-4-M | List Price: \$400 | Member Price: \$296

PDF DOWNLOAD Code: GSID-4-UL | List Price: \$320 | Member Price: \$237

LOOSELEAF & PDF COMBO Code: GSID-4-PUL | List Price: \$560 | Member Price: \$415

BRIDGES & STRUCTURES

SPECIALTY BRIDGE DESIGN

GUIDE SPECIFICATIONS 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

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GUIDE SPECIFICATIONS FOR BRIDGES VULNERABLE TO COASTAL STORMS, 1ST EDITION, WITH 2023 INTERIM REVISIONS

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. 70 pp. (Interim Revisions Available Separately)

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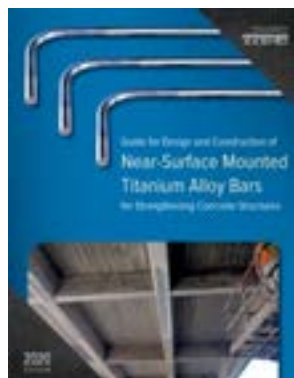
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GUIDE FOR DESIGN AND CONSTRUCTION OF NEAR-SURFACE MOUNTED TITANIUM ALLOY BARS FOR STRENGTHENING CONCRETE STRUCTURES, 1ST EDITION

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*. **2020. 48 pp.**

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



GUIDE SPECIFICATIONS FOR STRUCTURAL DESIGN WITH ULTRA-HIGH PERFORMANCE CONCRETE, 1ST EDITION

Item Code: LRFDUHP-1

These guide specifications are intended for structural design of bridge and ancillary structures utilizing ultra-high performance concrete (UHPC). UHPC is a class of concrete that has emerged as a compelling material for use in design, construction, and preservation of structures. It is a versatile material that can be used in primary structural components, field-cast connections between prefabricated components, and repair applications. **2024. 97 pp.**

PDF DOWNLOAD Code: LRFDUHP-1-UL | List Price: \$162 | Member Price: \$120

5-USER PDF DOWNLOAD Code: LRFDUHP-1-IP5 | List Price: \$689 | Member Price: \$510

10-USER PDF DOWNLOAD Code: LRFDUHP-1-IP10 | List Price: \$1,215 | Member Price: \$900



GUIDE SPECIFICATIONS FOR DESIGN OF BONDED FRP SYSTEMS FOR REPAIR AND STRENGTHENING OF CONCRETE BRIDGE ELEMENTS, 2ND EDITION

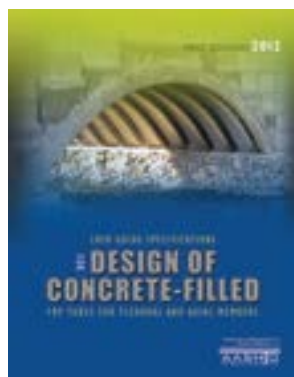
Item Code: FRPS-2

These guide specifications are intended for use in the repair and strengthening of reinforced and prestressed concrete highway bridge elements using externally bonded fiber-reinforced polymer (FRP) composite systems. The guide specifications have been updated to better align with ACI 440 strain approaches. **2023. 199 pp.**

PDF DOWNLOAD Code: FRPS-2-UL | List Price: \$216 | Member Price: \$160

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

Item Code: LRDFFRP-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: LRDFFRP-1-UL | List Price: \$36 | Member Price: \$27

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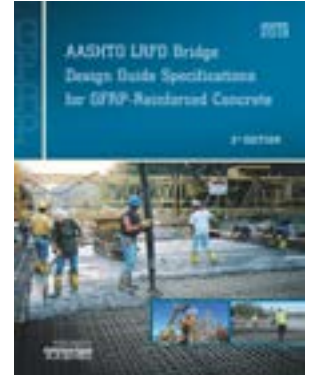
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AASHTO LRFD BRIDGE DESIGN GUIDE SPECIFICATIONS FOR GFRP-REINFORCED CONCRETE, 2ND EDITION

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. **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



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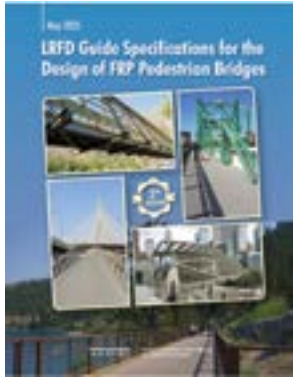
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LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF FRP PEDESTRIAN BRIDGES, 2ND EDITION

Item Code: GSDFPB-2

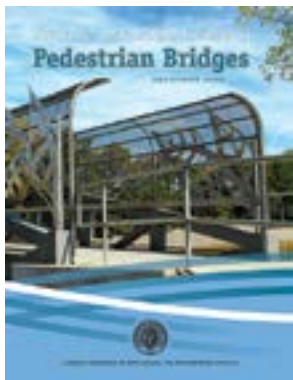
The first edition of these guide specifications, published in 2008, was intended for FRP truss bridges made by bolting pultruded elements together. Since that time, pultruded FRP planks and vacuum infusion molded FRP panels have been used as bridge decking supported by steel, concrete, or timber beams. The design provisions were based on Allowable Stress Design (ASD) and Load Factor Design (LFD).

This second edition provides additional guidance unique to the design of FRP pedestrian bridges, and design provisions are based on Load and Resistance Factor Design (LRFD), using the current state of practice for the design and detailing of FRP pedestrian bridges. **2025. 83 pp.**

PDF DOWNLOAD Code: GSDFPB-2-UL | List Price: \$88 | Member Price: \$65

5-USER PDF DOWNLOAD Code: GSDFPB-2-IP5 | List Price: \$373 | Member Price: \$276

10-USER PDF DOWNLOAD Code: GSDFPB-2-IP10 | List Price: \$658 | Member Price: \$488

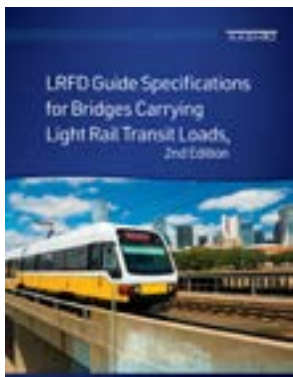


LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2ND EDITION, WITH 2015 INTERIM REVISIONS

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.**
(Interim Revisions Available Separately)

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



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 it is designed to be used. **2022. 39 pp.**

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SPECIALTY BRIDGE DESIGN

GUIDE TO PRESERVATION OF HIGHWAY BRIDGE DECKS, 1ST EDITION

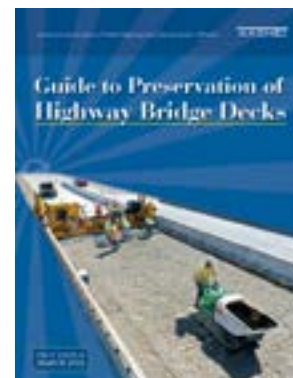
Item Code: GPHBD-1

This guide outlines preservation treatments, including deck overlays, surface sealers, and deck repairs, that can extend the life of bridge decks in service, and presents the factors in deck capacity and durability that can influence the identification of candidates for deck preservation. The guide is designed for use on decks in fair or good condition with significant remaining service life. Highway bridge decks often are exposed to severe loading conditions, both in terms of live load application and environmental exposure that may include the application of de-icing chemicals that can accelerate deck deterioration. Agencies implementing preservation treatments for highway bridge decks appropriately can expect to extend the service life of those decks and optimize preservation budgets. The guide includes over 20 highway bridge deck preservation treatments for bridge decks, outlining conditions when the treatment is appropriate and constraints on the treatments usage. **2023. 186 pp.**

PDF DOWNLOAD Code: GPHBD-1-UL | List Price: \$243 | Member Price: \$180

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GUIDE TO BRIDGE PRESERVATION ACTIONS, 1ST EDITION

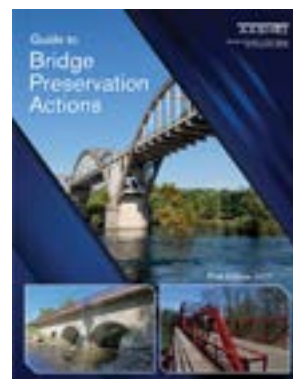
Item Code: BPA-1

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

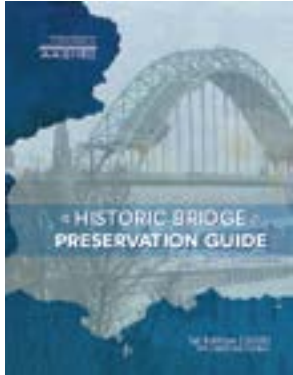
5-USER PDF DOWNLOAD Code: HBSLD-1-IP5 | List Price: \$1,073 | Member Price: \$795

10-USER PDF DOWNLOAD Code: HBSLD-1-IP10 | List Price: \$1,893 | Member Price: \$1,403



BRIDGES & STRUCTURES

SPECIALTY BRIDGE DESIGN



HISTORIC BRIDGE PRESERVATION GUIDE, 1ST EDITION

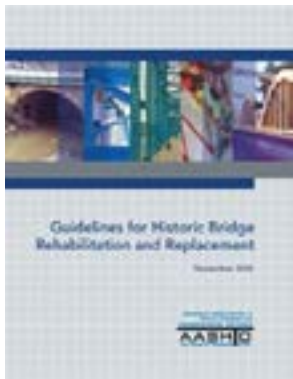
Item Code: HBP-1

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

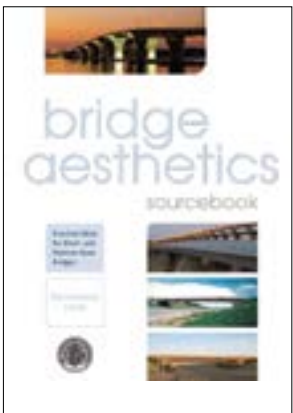


GUIDELINES FOR HISTORIC BRIDGE REHABILITATION AND REPLACEMENT, 1ST EDITION

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: \$19 | Member Price: \$14

BRIDGES & STRUCTURES

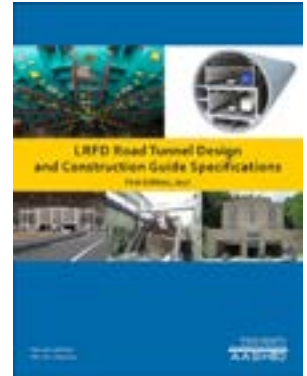
OTHER STRUCTURAL DESIGN

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

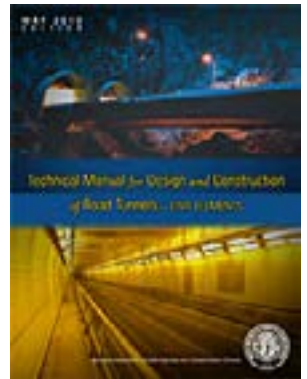
Item Code: DCRT-1

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.**

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

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

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-M

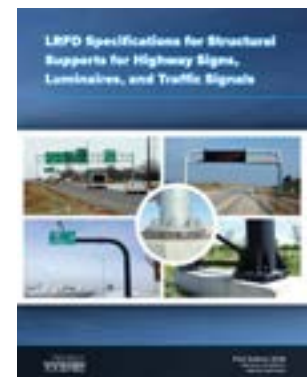
These specifications include current research on LRFD calibration, loads, and resistances. New sections on fabrication, construction, inspection, and asset management have also been added. **2015. 436 pp.**

(Interim Revisions Available Separately)

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

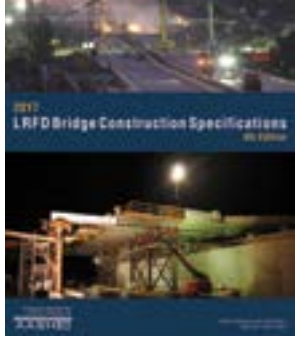
LOOSELEAF Code: LRFDLTS-1 | List Price: \$371 | Member Price: \$275

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



BRIDGES & STRUCTURES

BRIDGE CONSTRUCTION



AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4TH EDITION, WITH 2020, 2022, 2023, 2024 AND 2025 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*. **2017. 611 pp.** *(Interim Revisions Available Separately)*

PDF DOWNLOAD Code: LRFDCONS-4-UL | List Price: \$630 | Member Price: \$467

LOOSELEAF Code: LRFDCONS-4-M | List Price: \$788 | Member Price: \$584

LOOSELEAF & PDF COMBO Code: LRFDCONS-4-PUL | List Price: \$1,103 | Member Price: \$817

5-USER PDF DOWNLOAD Code: LRFDCONS-4-IP5 | List Price: \$2,679 | Member Price: \$1,985

10-USER PDF DOWNLOAD Code: LRFDCONS-4-IP10 | List Price: \$4,728 | Member Price: \$3,503



LRFD STEEL BRIDGE FABRICATION SPECIFICATIONS, 1ST EDITION, WITH 2024 AND 2025 INTERIM REVISIONS

Item Code: LRFDSFS-1

These specifications govern the fabrication of vehicular steel bridges to include the furnishing and fabrication of steel structures, and the structural steel portions of other structures. Their objective is to achieve quality and value from a common specification that standardizes vehicular steel bridge fabrication in the United States. Specifically, the specifications (a) minimize variations among projects; (b) provide economy, because individual fabricators would not have to change their methods and production variables; (c) allow expertise in steel bridge fabrication to be shared among states; and (d) enable owners to share resources, minimizing the effort each would, otherwise, spend to maintain their individual bridge fabrication specifications. **2023. 188 pp.** *(Interim Revisions Available Separately)*

PDF DOWNLOAD Code: LRFDSFS-1-UL | List Price: \$244 | Member Price: \$181

5-USER PDF DOWNLOAD Code: LRFDSFS-1-IP5 | List Price: \$1,038 | Member Price: \$769

10-USER PDF DOWNLOAD Code: LRFDSFS-1-IP10 | List Price: \$1,833 | Member Price: \$1,358



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.** *(Interim Revisions Available Separately)*

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

BRIDGES & STRUCTURES

BRIDGE CONSTRUCTION

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



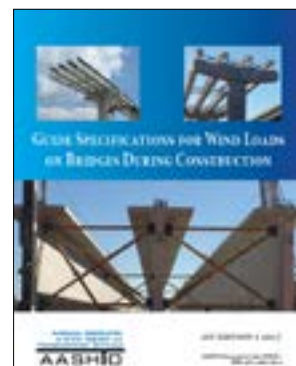
GUIDE SPECIFICATIONS FOR WIND LOADS ON BRIDGES DURING CONSTRUCTION, 1ST EDITION

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



INFORMATION DELIVERY MANUAL (IDM) FOR THE DESIGN TO CONSTRUCTION DATA EXCHANGE FOR HIGHWAY BRIDGES, 1ST EDITION

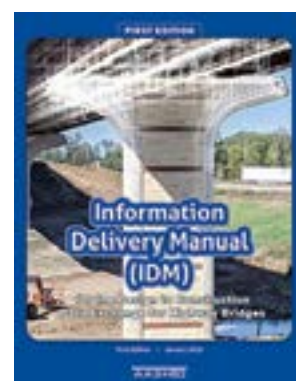
Item Code: IDM-1

This manual is a reference for a standardized set of information to serve one specific use case: the exchange of model-based information to execute the construction. Its goal is to support the development of a range of technical solutions for computer interoperable information exchange for highway bridges and related structures in the United States. It is designed for use by software vendors and state departments of transportation to map the information exchange requirement to version 4.3 of the Industry Foundation Classes schema. **2023. 72 pp.**

PDF DOWNLOAD Code: IDM-1-UL | List Price: \$108 | Member Price: \$80

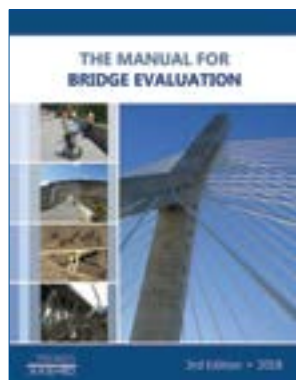
5-USER PDF DOWNLOAD Code: IDM-1-IP5 | List Price: \$459 | Member Price: \$340

10-USER PDF DOWNLOAD Code: IDM-1-IP10 | List Price: \$810 | Member Price: \$600



BRIDGES & STRUCTURES

STRUCTURAL INSPECTION AND EVALUATION



MANUAL FOR BRIDGE EVALUATION, 3RD EDITION, WITH 2020 AND 2022 INTERIM REVISIONS

Item Code: MBE-3-M

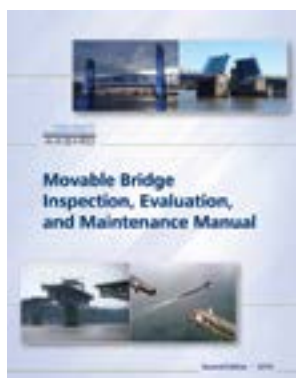
This manual has been developed to assist bridge owners by establishing inspection procedures and evaluation practices that meet the National Bridge Inspection Standards (NBIS). The manual is divided into eight sections, each representing a distinct phase of an overall bridge inspection and evaluation program. **2018. 749 pp.**

(Interim Revisions Available Separately)

PDF DOWNLOAD Code: MBE-3-UL | List Price: \$498 | Member Price: \$369

LOOSELEAF Code: MBE-3-M | List Price: \$623 | Member Price: \$461

LOOSELEAF & PDF COMBO Code: MBE-3-PUL | List Price: \$872 | Member Price: \$646



MOVABLE BRIDGE INSPECTION, EVALUATION, AND MAINTENANCE MANUAL, 2ND EDITION, WITH 2024 INTERIM REVISIONS

Item Code: MBI-2

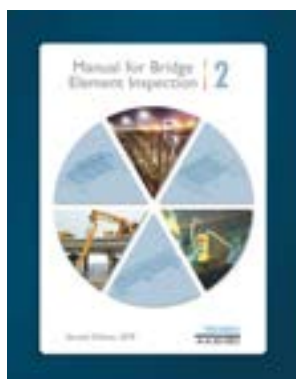
This manual presents uniform guidelines and procedures pertaining to the structural, mechanical, electrical, and operational characteristics unique to movable highway bridges. **2017. 515 pp.**

(Interim Revisions Available Separately)

PDF DOWNLOAD Code: MBI-2-UL | List Price: \$489 | Member Price: \$362

LOOSELEAF Code: MBI-2 | List Price: \$611 | Member Price: \$453

LOOSELEAF & PDF COMBO Code: MBI-2-PUL | List Price: \$855 | Member Price: \$634



MANUAL FOR BRIDGE ELEMENT INSPECTION, 2ND EDITION, WITH 2022, 2024, AND 2025 INTERIM REVISIONS

Item Code: MBEI-2-M

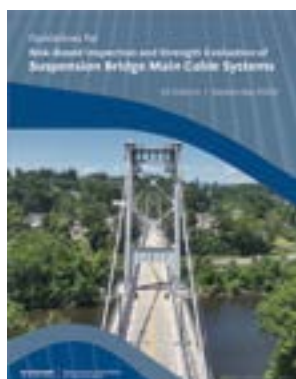
This manual is a reference for standardized element definitions, element quantity calculations, condition state definitions, element feasible actions, and inspection conventions. Its goal is to capture the condition of bridges in a simple, effective way that can be standardized nationwide, while providing 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. 181 pp.** *(Interim Revisions Available Separately)*

PDF DOWNLOAD Code: MBEI-2-UL | List Price: \$298 | Member Price: \$221

LOOSELEAF Code: MBEI-2-M | List Price: \$373 | Member Price: \$276

LOOSELEAF & PDF COMBO Code: MBEI-2-PUL | List Price: \$522 | Member Price: \$387

25-USER PDF DOWNLOAD Code: MBEI-2-IP25 | List Price: \$5,221 | Member Price: \$3,868



GUIDELINES FOR RISK-BASED INSPECTION AND STRENGTH EVALUATION OF SUSPENSION BRIDGE MAIN CABLE SYSTEMS, 1ST EDITION

Item Code: GRISES-1

These guidelines provide a risk-based methodology to inspect and load rate suspension bridge cable systems, based on national research and years of proven practical and effective use.[†] Topics include initial data gathering, field inspection, testing, synthesis of data, estimating cable strength, risk-based method for determining inspection intervals, and illustrative examples. **2025. 169 pp.**

PDF DOWNLOAD Code: GRISES-1-UL | List Price: \$189 | Member Price: \$140

5-USER PDF DOWNLOAD Code: GRISES-1-IP5 | List Price: \$803 | Member Price: \$595

10-USER PDF DOWNLOAD Code: GRISES-1-IP10 | List Price: \$1,418 | Member Price: \$1,050

BRIDGES & STRUCTURES

STRUCTURAL INSPECTION AND EVALUATION

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.**

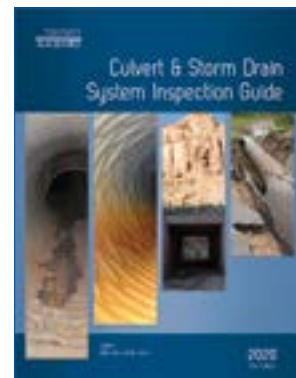
PDF DOWNLOAD Code: CSDIM-1-UL | List Price: \$312 | Member Price: \$231

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



MECHANICALLY-FASTENED BUILT-UP STEEL MEMBERS, 1ST EDITION, WITH 2022 AND 2025 INTERIM REVISIONS

Item Code: GSBMS-1

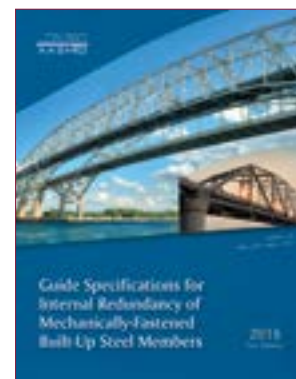
These guide specifications are intended to provide an analytical framework to evaluate the internal redundancy of typical steel bridge members and designate primary steel members as Fracture Critical Members (FCMs) or Internally Redundant Members (IRMs). They describe a procedure for evaluating the internal 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. 101 pp.**

(Interim Revisions Available Separately)

PDF DOWNLOAD Code: GSBMS-1-UL | List Price: \$84 | Member Price: \$62

5-USER PDF DOWNLOAD Code: GSBMS-1-IP5 | List Price: \$356 | Member Price: \$264

10-USER PDF DOWNLOAD Code: GSBMS-1-IP10 | List Price: \$628 | Member Price: \$465



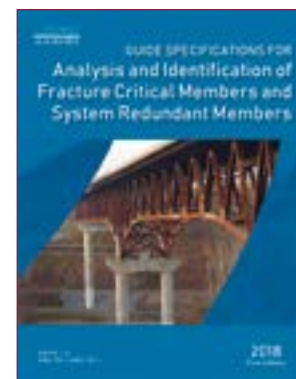
GUIDE SPECIFICATIONS FOR ANALYSIS AND IDENTIFICATION OF FRACTURE CRITICAL MEMBERS AND SYSTEM REDUNDANT MEMBERS, 1ST EDITION, WITH 2022 INTERIM REVISIONS

Item Code: GSFCM-1

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.**

(Interim Revisions Available Separately)

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



BRIDGES & STRUCTURES

STANDARD SPECIFICATIONS



STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION

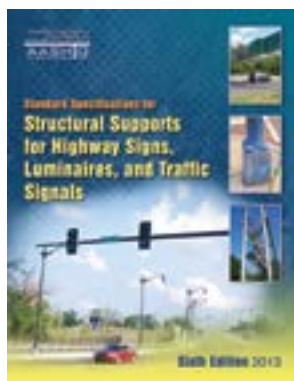
Item Code: HB-17

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. **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



STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, 6TH EDITION, WITH 2015, 2019, 2020, 2022, AND 2025 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. 404 pp. (Interim Revisions Available Separately)**

PDF DOWNLOAD Code: LTS-6-UL | List Price: \$531 | Member Price: \$393

LOOSELEAF Code: LTS-6-M | List Price: \$663 | Member Price: \$491

LOOSELEAF & PDF COMBO Code: LTS-6-PUL | List Price: \$928 | Member Price: \$688



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. (Interim Revisions Available Separately)**

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

BRIDGES & STRUCTURES

AASHTO-NSBA CONCRETE BRIDGE COLLABORATION



AASHTO and the National Concrete Bridge Council (NCBC), have collaborated to develop publications related to concrete bridge construction.

The AASHTO—NCBC Concrete Bridge Collaboration publication below is **available to download, free of charge, from the AASHTO Store**.

RESOURCES FOR CONCRETE BRIDGE DESIGN AND CONSTRUCTION, 1ST EDITION

Item Code: NCBCRCB-1

This publication compiles a list of essential resources for concrete bridge practitioners in their design and construction endeavors. It is useful for both new engineers to be exposed to these available resources, as well as for long-term practitioners to locate current and relevant resources. **2024. 86 pp.**

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



Preparing for the PE Exam?

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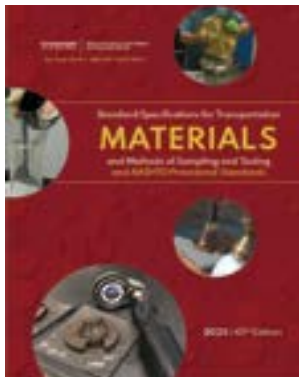
This collection includes the seven AASHTO
publications needed to prepare for the
NCEES Professional Engineers (PE) Exam.

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and search by the item
code PE-1-M.

MATERIALS & PAVEMENT

MATERIALS



STANDARD SPECIFICATIONS FOR TRANSPORTATION MATERIALS AND METHODS OF SAMPLING AND TESTING, AND AASHTO PROVISIONAL STANDARDS, 45TH EDITION—2025 (THE "MATERIALS STANDARDS")

Item Code: HM-45

The AASHTO "Materials Standards" contains specifications, recommended practices, and test methods commonly used in the construction of highway facilities. Provisional standards are also published to allow practitioners to use them early in the research or development phase. This 2025 edition contains a total of 583 standards, including **20 new and 103 revised standards**. In addition to revisions to harmonize industry standards, update technology, and improve the standards, the edition includes conversions to dual units, as well as several important updates, including better defining coal ash used on concrete; more clearly defining blended cements alkali loading; clearer requirements for both making and storing concrete test specimens; improvements to the pipe standards; and clarifications to the binder content of asphalt mixtures by nuclear method. **2025. 6,191 pp.**

PDF DOWNLOAD (Single-user) Code: HM-45-UL | List Price: \$1,114 | Member Price: \$825

2-USER PDF DOWNLOAD Code: HM-45-IP2 | List Price: \$2,115 | Member Price: \$1,567

3-USER PDF DOWNLOAD Code: HM-45-IP3 | List Price: \$3,006 | Member Price: \$2,227

5-USER PDF DOWNLOAD Code: HM-45-IP5 | List Price: \$4,733 | Member Price: \$3,506

10-USER PDF DOWNLOAD Code: HM-45-IP10 | List Price: \$8,353 | Member Price: \$6,188

25-USER PDF DOWNLOAD Code: HM-45-IP25 | List Price: \$19,491 | Member Price: \$14,438

PDF Download copies of individual Materials Standards are available to purchase online at store.transportation.org, by entering the standard number in the search box. A complete list of the individual Materials Standards is available at <https://store.transportation.org/Common/DownloadContentFiles?id=2546>.

PAVEMENT



MANUAL ON SUBSURFACE INVESTIGATIONS, 2ND EDITION

Item Code: MSI-2

This manual describes the elements, considerations, investigation tools and techniques, and reporting requirements for geotechnical subsurface investigations for transportation facilities. This edition has been updated to address advancements in geophysical, in situ, and laboratory testing; reliability-based design as codified by the AASHTO LRFD Bridge Design Specifications, 9th Edition; and project delivery methods.

2022. 410 pp.

PDF DOWNLOAD Code: MSI-2-UL | List Price: \$297 | Member Price: \$200

5-USER PDF DOWNLOAD Code: MSI-2-IP5 | List Price: \$1,262 | Member Price: \$935

10-USER PDF DOWNLOAD Code: MSI-2-IP10 | List Price: \$2,228 | Member Price: \$1,650

DESIGNING HMA MIXTURES WITH HIGH RAP CONTENT: A PRACTICAL GUIDE

Item Code: HMAPG-1

A joint publication of the National Asphalt Pavement Association, the Federal Highway Administration, and AASHTO, this publication provides practical guidelines for hot-mix asphalt (HMA) mixtures with at least 25 percent reclaimed asphalt pavement (RAP). Topics covered include materials evaluation, mix design, plant verification, and quality control. **2007. 35 pp.**

PAPERBACK Code: HMAPG-1 | List Price: \$27 | Member Price: \$20



MATERIALS & PAVEMENT

PAVEMENT

GUIDE FOR REDUCING THE CRADLE-TO-GATE EMBODIED CARBON EMISSIONS OF PAVING CONCRETE, 1ST EDITION

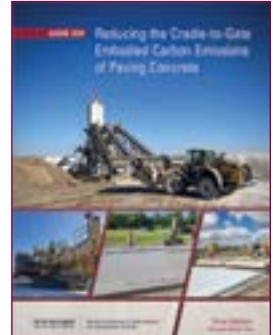
Item Code: RCCC-1

This guide offers several strategies for material selection and proportioning that transportation agencies and contractors can use to reduce the cradle-to-gate embodied carbon emissions of paving concrete. Although focused primarily on mixtures for paving, many of the strategies presented can be extended to concrete mixtures for other applications, including structural and ancillary uses. **2025. 72 pp.**

PDF DOWNLOAD Code: RCCC-1-UL | List Price: \$68 | Member Price: \$55

5-USER PDF DOWNLOAD Code: RCCC-1-IP5 | List Price: \$316 | Member Price: \$234

10-USER PDF DOWNLOAD Code: RCCC-1-IP10 | List Price: \$557 | Member Price: \$413



AASHTO GUIDE FOR INTERLOCKING PAVEMENTS, 1ST EDITION

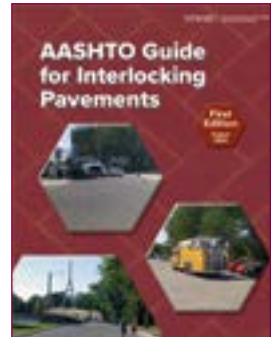
Item Code: AGIP-1

This guide represents a synthesis of the research and decades of experience on interlocking and permeable concrete pavements. It includes information on its materials; design; construction; maintenance and preservation; and sustainability and resilience. It is a resource to both state departments of transportation and municipal public works departments. **2024. 128 pp.**

PDF DOWNLOAD Code: AGIP-1-UL | List Price: \$189 | Member Price: \$140

5-USER PDF DOWNLOAD Code: AGIP-1-IP5 | List Price: \$803 | Member Price: \$595

10-USER PDF DOWNLOAD Code: AGIP-1-IP10 | List Price: \$1,418 | Member Price: \$1,050



MECHANISTIC-EMPIRICAL PAVEMENT DESIGN GUIDE: A MANUAL OF PRACTICE, 3RD EDITION, WITH 2021 SUPPLEMENT

Item Code: MEPDG-3-M

This guide includes a new fracture mechanics-based model for reflective cracking in AC overlays over flexible, semi-rigid, and rigid pavements; new mechanistic-empirical model for short jointed plain concrete pavement (SJPCP) overlays of flexible pavements; new flexible and semi-rigid pavement global calibration coefficients; addition of non-structural preventative maintenance treatment consideration for flexible and rigid pavements; addition of five level 3 default distributions for normalized axle load spectra (NALS); updated climate discussion for Modern Era Retrospective Reanalysis (MERRA) and North American Regional Reanalysis (NARR) data; incorporation of crack load transfer efficiency (LTE) for flexible pavements; expanded guidance for creep compliance and indirect tensile strength inputs for asphalt wearing surface layers; and updated standards references. **2020. 297 pp.**

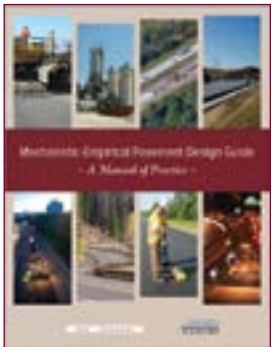
PDF DOWNLOAD Code: MEPDG-3-M-UL | List Price: \$149 | AASHTO Member Price: \$110

PAPERBACK Code: MEPDG-3-M | List Price: \$186 | AASHTO Member Price: \$138

PAPERBACK & PDF COMBO Code: MEPDG-3-M-PUL | List Price: \$260 | AASHTO Member Price: \$193

5-USER PDF DOWNLOAD Code: MEPDG-3-IP5 | List Price: \$631 | AASHTO Member Price: \$468

10-USER PDF DOWNLOAD Code: MEPDG-3-IP10 | List Price: \$1,114 | AASHTO Member Price: \$825



GUIDE FOR THE LOCAL CALIBRATION OF THE MECHANISTIC-EMPIRICAL PAVEMENT DESIGN GUIDE, 1ST EDITION

Item Code: LCG-1

This guide provides guidance to calibrate the Mechanistic-Empirical Pavement Design Guide (MEPDG) software to local conditions, policies, and materials. **2010. 208 pp.**

PDF DOWNLOAD Code: LCG-1-UL | List Price: \$74 | Member Price: \$55

PAPERBACK Code: LCG-1 | List Price: \$93 | Member Price: \$69

PAPERBACK & PDF COMBO Code: LCG-1-PUL | List Price: \$130 | Member Price: \$96



MATERIALS & PAVEMENT

PAVEMENT



GUIDE FOR DESIGN OF PAVEMENT STRUCTURES, 4TH EDITION, WITH 1998 SUPPLEMENT

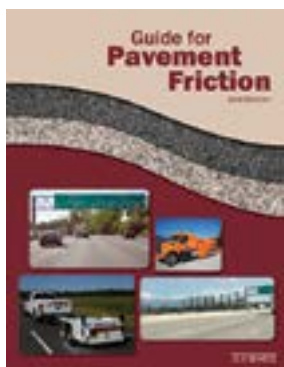
Item Code: GDPS-4-M

This guide includes various approaches to pavement design, including design and management principals, procedures for new construction or reconstruction, and procedures for the rehabilitation of existing pavements. It also contains information on overlay design methodology and rehabilitation, including several overlay procedures and associated options. **1993. 700 pp.**

PDF DOWNLOAD Code: GDPS-4-M-UL | List Price: \$135 | Member Price: \$100

PAPERBACK Code: GDPS-4-M | List Price: \$169 | Member Price: \$125

PAPERBACK & PDF COMBO Code: GDPS-4-M-PUL | List Price: \$236 | Member Price: \$175



GUIDE FOR PAVEMENT FRICTION, 2ND EDITION

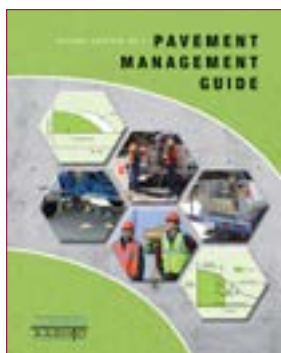
Item Code: GPVF-2

This guide contains recommendations and guidelines for managing and designing highway pavements for friction. It has been updated to include information on friction testing and safety, including how the risk for both wet and dry crashes increases as pavement friction decreases. This consideration between friction and all crashes is consistent with proactive and systemic approaches to improving safety performance across the roadway network, based on measurable risk and performance characteristics that are part of the Safe Systems approach. The recommendations for pavement friction management programs were also updated to reflect the most current safety concepts, and include additional information on alternative friction testing equipment. **2022. 92 pp.**

PDF DOWNLOAD Code: GPVF-2-UL | List Price: \$128 | Member Price: \$95

5-USER PDF DOWNLOAD Code: GPVF-2-IP5 | List Price: \$545 | Member Price: \$404

10-USER PDF DOWNLOAD Code: GPVF-2-IP10 | List Price: \$962 | Member Price: \$713



PAVEMENT MANAGEMENT GUIDE, 2ND EDITION

Item Code: PMG-2

This guide was developed to address the issues and challenges associated with managing pavements effectively, including assessing funding needs for pavement preservation and rehabilitation, and setting attainable pavement-related performance goals. It contains information on the significant advancements in pavement management practices, including the increased emphasis on pavement preservation programs; the use of preventive maintenance treatments as part of pavement preservation programs; advancements in data quality and integration issues; recent initiatives impacting the types of data required by pavement management; and the increased importance of performance measurement and asset management principles. **2012. 200 pp.**

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

PAPERBACK Code: PMG-2 | List Price: \$140 | Member Price: \$104

PAPERBACK & PDF COMBO Code: PMG-2-PUL | List Price: \$196 | Member Price: \$145

CONSTRUCTION & RIGHT-OF-WAY

GUIDE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 10TH EDITION, WITH 2022 INTERIM REVISIONS

Item Code: GSH-10-M

These guide specifications provide guidance for developing transportation contract specifications and are the national standard for best practices in highway and road construction. This consensus-based guide is used by states and local agencies as a standard requirement for roadway construction contracts and is a basis for those agencies to use in developing their own construction specifications. This edition focuses on electronic submittals, updated environmental requirements, and revised materials specifications. **2020. 625 pp.**

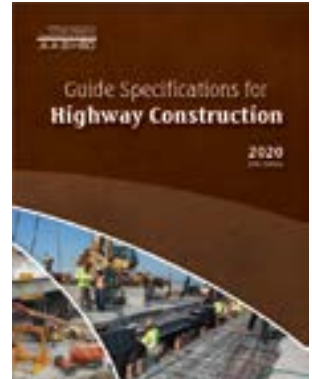
PDF DOWNLOAD Code: GSH-10-M-UL | List Price: \$321 | Member Price: \$238

PAPERBACK Code: GSH-10-M | List Price: \$402 | Member Price: \$298

PAPERBACK & PDF COMBO Code: GSH-10-M-PUL | List Price: \$562 | Member Price: \$417

5-USER PDF DOWNLOAD Code: GSH-10-M-IP5 | List Price: \$1,366 | Member Price: \$1,012

10-USER PDF DOWNLOAD Code: GSH-10-M-IP10 | List Price: \$2,410 | Member Price: \$1,785



GUIDE FOR ACCOMMODATING UTILITIES WITHIN HIGHWAYS AND FREEWAYS, 1ST EDITION

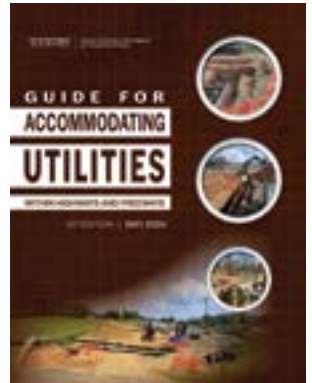
Item Code: GAUHF-1

This guide merges and updates the information in two former publications on utility accommodation: *A Policy on the Accommodation of Utilities Within Freeway Right-of-Way, 5th Edition* (published in 2005); and *A Guide for Accommodating Utilities within Highway Right-of-Way, 4th Edition* (published in 2005). The guide includes updates to materials that have changed or developed, as well as information on emerging technologies for installing and accommodating utilities in the right-of-way. **2024. 64 pp.**

PDF DOWNLOAD Code: GAUHF-1-UL | List Price: \$86 | Member Price: \$64

5-USER PDF DOWNLOAD Code: GAUHF-1-IP5 | List Price: \$367 | Member Price: \$272

10-USER PDF DOWNLOAD Code: GAUHF-1-IP10 | List Price: \$648 | Member Price: \$480



AASHTO PARTNERING HANDBOOK, 2ND EDITION

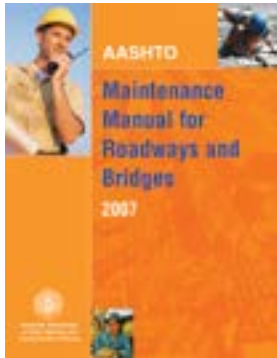
Item Code: APH-2

This handbook was developed to educate key customers and partners on the benefits and methods of adopting partnering principles, in both new and existing partnering programs. Its goal is to encourage agencies to create a project delivery environment that integrates partnering principles into routine business practices. This 2018 2nd edition supersedes the 2005 1st edition. **2018. 151 pp.**

PDF DOWNLOAD Code: APH-2-UL | List Price: \$72 | Member Price: \$53



MAINTENANCE



AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES, 4TH EDITION

Item Code: MM-4

This manual is intended for those early in their career in roadway and bridge maintenance and will assist in understanding the various processes, methods, and materials that are applied to maintain bridge and highway systems effectively. The 2007 edition is based on information gleaned from recent highway transportation literature on maintenance and from NCHRP SP20-07, Task 170, and includes a new chapter on Systems Operation and Management. **2007. 372 pp.**

PDF DOWNLOAD Code: MM-4-UL | List Price: \$39 | Member Price: \$29



GUIDELINES FOR MAINTAINING SMALL MOVEMENT BRIDGE EXPANSION JOINTS, 1ST EDITION

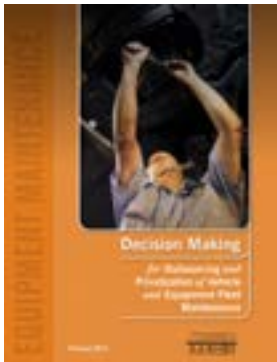
Item Code: MSMB-1

These guidelines provide bridge maintenance practitioners with detailed procedures for replacing, repairing, and maintaining Small Movement Expansion Joints (SMEJs). "Small movement" is defined as an expansion joint with a total movement of 4" or less. SMEJs serve an important function in the life-cycle of a bridge. They provide a smooth transition from one span to another in a multi-span bridge or from the approach roadway to the deck, and they direct water and other chemicals off of the deck and away from the bridge. While the cost of a joint may be small relative to the total cost of the bridge, the consequences of a joint failure can be significant and, as such, there has been a growing awareness of the need to develop detailed procedures for maintaining, repairing, and replacing SMEJs. **2021. 130 pp.**

PDF DOWNLOAD Code: MSMB-1-UL | List Price: \$149 | Member Price: \$110

5-USER PDF DOWNLOAD Code: MSMB-1-IP5 | List Price: \$631 | Member Price: \$468

10-USER PDF DOWNLOAD Code: MSMB-1-IP10 | List Price: \$1,114 | Member Price: \$825



DECISION MAKING FOR OUTSOURCING AND PRIVATIZATION OF VEHICLE AND EQUIPMENT FLEET MAINTENANCE, 1ST EDITION

Item Code: EFM-1

This report presents a framework for conducting systematic analysis and making decisions on outsourcing and privatization of vehicle and equipment fleet maintenance. The framework defines a decision process model that focuses on the unique features of state department of transportation fleet maintenance and can be applied to a wide range of outsourcing decision alternatives. **2012. 84 pp.**

PDF DOWNLOAD Code: EFM-1-UL | List Price: \$27 | Member Price: \$20



MANUAL FOR EMULSION-BASED CHIP SEALS FOR PAVEMENT PRESERVATION, 1ST EDITION

Item Code: MEBC-1

This manual, designed for use by maintenance engineers and others involved in the maintenance and preservation of flexible pavements, addresses the factors affecting chip performance, discusses design and construction considerations, and identifies procedures for selecting the appropriate chip seal materials. It provides the information necessary to design and construct long-lasting chip seals and preserve pavements. **2012. 52 pp.**

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

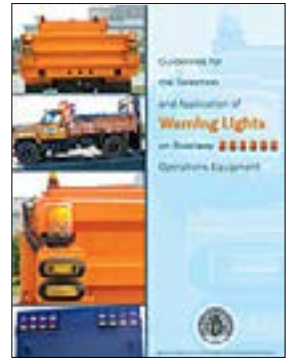
MAINTENANCE

GUIDELINES FOR THE SELECTION AND APPLICATION OF WARNING LIGHTS ON ROADWAY OPERATIONS EQUIPMENT, 1ST EDITION

Item Code: WL-1

These guidelines have been developed based on the results of a series of experiments that considered more than forty lighting configurations in both static and dynamic environments. The metrics used in the experiments included presence of maintenance personnel, the identification of the maintenance vehicle, attention-getting, glare, peripheral detection, and urgency. Differing experimental conditions, such as weather, the presence of other vehicles, and time of day were also considered. **2009. 18 pp.**

PDF DOWNLOAD Code: WL-1-UL | List Price: \$15 | Member Price: \$11



GUIDELINES FOR VEGETATION MANAGEMENT, 1ST EDITION, WITH APPENDICES

Item Code: GVM-1-M

Roadside vegetation managers worldwide face dwindling resources, increasing environmental and legal constraints, and increasing public pressure to provide safe and aesthetically pleasing roadsides. These guidelines draw on the expertise of vegetation managers to provide the basic knowledge required to establish a roadside vegetation management program. **2011. 136 pp.**

PDF DOWNLOAD Code: GVM-1-M-UL | List Price: \$45 | Member Price: \$33

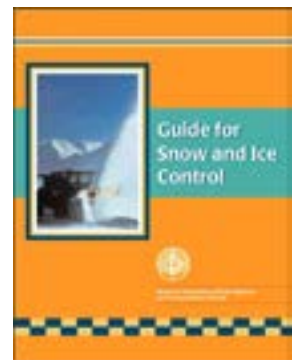


GUIDE FOR SNOW AND ICE CONTROL, 1ST EDITION

Item Code: GSIC-1

This guide provides a comprehensive overview of a snow and ice control program, and describes the purpose of snow and ice control and how to achieve an appropriate level of service. It stresses the importance of involving other jurisdictions, the media, emergency management services, and the public in developing policies and practices to provide the targeted level of service. It promotes innovative organizational practices and procedures to improve operations, reduce costs, and provide a safe environment for road users. It also describes the use of weather information technologies to improve resource allocation decisions. **1999. 268 pp.**

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

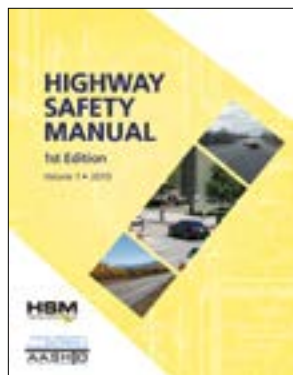


**Do you have a question
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SAFETY



HIGHWAY SAFETY MANUAL, 1ST EDITION, WITH 2014 SUPPLEMENT

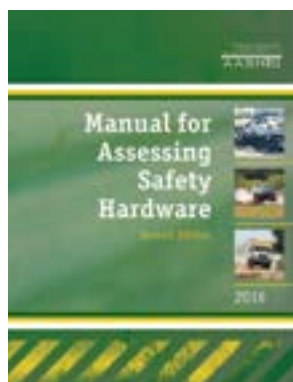
Item Code: HSM-1-M

This manual was developed to help measurably reduce the frequency and severity of crashes on American roadways by providing tools for considering safety in the project development process. It assists practitioners in selecting countermeasures and prioritizing projects, comparing alternatives, and quantifying and predicting the safety performance of roadway elements considered in planning, design, construction, maintenance, and operation. The manual features a synthesis of validated highway research, procedures for including safety in project decisions, and analytical tools for predicting impact on road safety. **2010. 1,296 pp.**

PDF DOWNLOAD Code: HSM-1-UL | List Price: \$594 | Member Price: \$440

PAPERBACK Code: HSM-1-M | List Price: \$743 | Member Price: \$550

PAPERBACK & PDF COMBO Code: HSM-1-PUL | List Price: \$1,040 | Member Price: \$770



MANUAL FOR ASSESSING SAFETY HARDWARE, 2ND EDITION

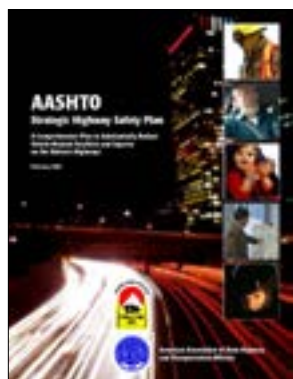
Item Code: MASH-2-M

This manual encourages consistency in testing and evaluation of roadside safety features. It includes a new matrix for cable barrier testing on slopes, modifications to several test vehicle dimensions, and updated test documentation requirements. **2016. 277 pp.**

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

PAPERBACK Code: MASH-2-M | List Price: \$140 | Member Price: \$104

PAPERBACK & PDF COMBO Code: MASH-2-M-PUL | List Price: \$196 | Member Price: \$145

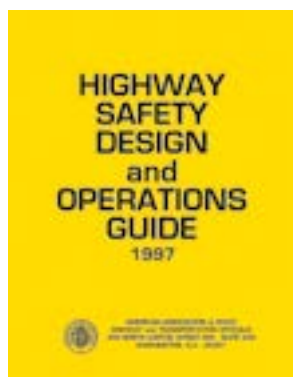


AASHTO STRATEGIC HIGHWAY SAFETY PLAN—A COMPREHENSIVE PLAN TO SUBSTANTIALLY REDUCE VEHICLE-RELATED FATALITIES AND INJURIES ON THE NATION'S HIGHWAYS, 2ND EDITION

Item Code: SHSP-2

This plan and the tools developed to facilitate its implementation offer state and local transportation and safety agencies a lifesaving blueprint ready for application in developing comprehensive highway safety plans. **2005. 40 pp.**

PDF DOWNLOAD Code: SHSP-2-OL | This is a FREE publication.



HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE, 3RD EDITION

Item Code: SR-3

This guide combines results of research and state-of-the-art technologies with proven engineering practices to enhance safety in highway operation and management. It consolidates safety information and suggests how existing situations might be upgraded to meet current standards and future needs. It is useful for design and planning purposes, as well as field reviews during planning, development, and evaluation. **1997. 131 pp.**

PDF DOWNLOAD Code: SR-3-UL | List Price: \$30 | Member Price: \$22

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