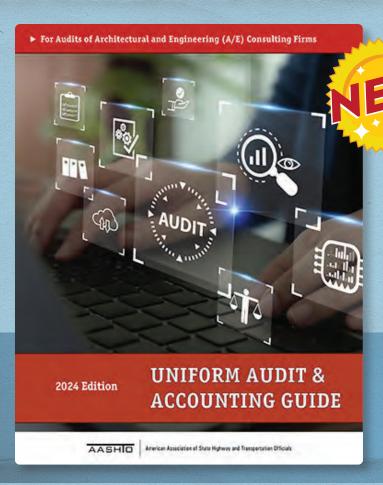
# AASHIO

# AASHTO PUBLICATIONS CATALOG



New Uniform Audit & Accounting Guide, Now Available!

# Uniform Audit & Accounting Guide

See page 27 for details!



2022 Annual AASHTO State DOT HR Metrics Report

page 39



2024 Interim Revisions to the LRFD Movable Bridge Inspection, Evaluation, and Maintenance Manual, 2nd Edition page 13



Manual on Uniform
Traffic Control Devices,
11th Edition
See page 32 for
details about the
new paperback
edition coming

# AASHTO PUBLICATIONS CATALOG

### 2024 | VOLUME 2

### **CONTENTS**

Bridges & Structures
Materials, Testing & Pavement18
Maintenance22
Construction & Right-of-Way24
Passenger Rail & Freight25
Highway Transport & Trucking
Administration & Economics
Operations
Design & Traffic29
Safety
Environment
Data38
Reports39
Asset Management & Planning

# Have a question about an AASHTO publication?

Email us

aashtopublications@aashto.org

# **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. 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

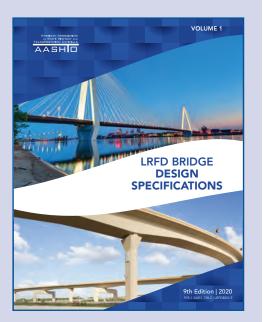
5-USER PDF DOWNLOAD Code: LRFDBDS-9-IP5 | List Price: \$3,035 |

Member Price: \$2,248

10-USER PDF DOWNLOAD Code: LRFDBDS-9-IP10 | List Price: \$5,356 |

Member Price: \$3,968

25-USER PDF DOWNLOAD Code: LRFDBDS-9-IP25 | List Price: \$12,498 | Member Price: \$9,258

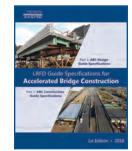


# LRFD GUIDE SPECIFICATIONS FOR ACCELERATED BRIDGE CONSTRUCTION, 1ST EDITION

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 Also 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

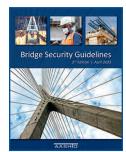


### **BRIDGE SECURITY GUIDELINES, 2ND EDITION**

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. **2022. 101 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

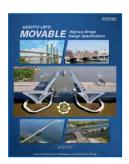
# AASHTO LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS, 3RD EDITION

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.

This 2023 third edition, which supersedes the 2007 second edition and its subsequent interim revisions, 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, 9th Edition, and differ from those provisions in the use of displacement-based design procedures, rather than the traditional force-based R-Factor method. The guide specifications contain detailed guidance and commentary on earthquake-resisting elements and systems, global design strategies, demand modeling, capacity calculation, and liquefaction effects. Capacity design procedures underpin the guide specifications methodology and include prescriptive detailing for plastic-hinging regions and design requirements for capacity protection of those elements that should not experience damage. **2023. 295 pp.** 

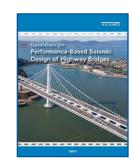


PDF DOWNLOAD Code: LRFDSEIS-3-UL | List Price: \$392 | Member Price: \$290 
5-USER PDF DOWNLOAD Code: LRFDSEIS-3-IP5 | List Price: \$1,664 | Member Price: \$1,233 
10-USER PDF DOWNLOAD Code: LRFDSEIS-3-IP10 | List Price: \$2,936 | Member Price: \$2,175

# 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. Their 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. Specifically, the guidelines (a) provide design methodology for performance-based seismic design of bridges; (b) establish three bridge operational categories based on their importance in the transportation system: critical, recovery, and ordinary; (c) establish the performance goals for each of these operational categories for both lower- and higher-level seismic events; and (d) provide fundamentals of direct displacement-based design for bridges. **2023. 186 pp.** 



PDF DOWNLOAD Code: GPBSD-1-UL | List Price: \$243 | Member Price: \$180
5-USER PDF DOWNLOAD Code: GPBSD-1-IP5 | List Price: \$1,033 | Member Price: \$765
10-USER PDF DOWNLOAD Code: GPBSD-1-IP10 | List Price: \$1,823 | Member Price: \$1,350

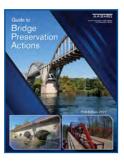


### **GUIDE TO BRIDGE PRESERVATION ACTIONS, 1ST EDITION**

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**.

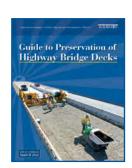
PDF DOWNLOAD Code: BPA-1-UL | List Price: \$482 | Member Price: \$357
5-USER PDF DOWNLOAD Code: BPA-1-IP5 | List Price: \$2,048 | Member Price: \$1,517
10-USER PDF DOWNLOAD Code: BPA-1-IP10 | List Price: \$3,615 | Member Price: \$2,678



### **GUIDE 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 5-USER PDF DOWNLOAD Code: GPHBD-1-IP5 | List Price: \$1,033 | Member Price: \$765 10-USER PDF DOWNLOAD Code: GPHBD-1-IP10 | List Price: \$1,823 | Member Price: \$1,350

### 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.** 



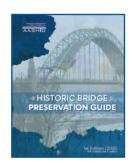


### HISTORIC BRIDGE PRESERVATION GUIDE, 1ST EDITION

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



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

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. 513 pp.** 

**PDF DOWNLOAD** Code: GSID-4-UL | List Price: \$297 | Member Price: \$220 **LOOSELEAF** Code: GSID-4-M | List Price: \$371 | Member Price: \$275

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

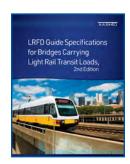
Interim Revisions Also Available Separately



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.** 

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



AASHIO

SEISMIC

# 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 Also Available Separately

# Pedestrian Bridges

### 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 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



### 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



AASHTO LRFD Bridge

# 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

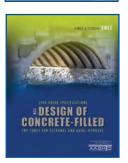
# Guler Specification for the Design of Concrete Bridge Beams Prestressed with Cartion Fiber-Reinforced Polymer (CFRP) Systems

# 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

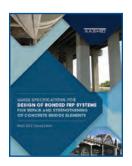


# GUIDE SPECIFICATIONS FOR DESIGN OF BONDED FRP SYSTEMS FOR REPAIR AND STRENGTHENING OF CONCRETE BRIDGE ELEMENTS, 2ND EDITION

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.** 

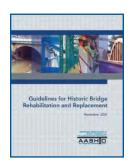
PDF DOWNLOAD Code: FRPS-2-UL | List Price: \$216 | Member Price: \$160
5-USER PDF DOWNLOAD Code: FRPS-2-IP5 | List Price: \$918 | Member Price: \$680
10-USER PDF DOWNLOAD Code: FRPS-2-IP10 | List Price: \$1,620 | Member Price: \$1,200



### 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.** 



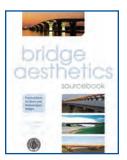
PDF DOWNLOAD Code: GHBRR-1-OL | This is a FREE publication.

### **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



# 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.** 



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

Interim Revisions Also Available Separately

### 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.** 

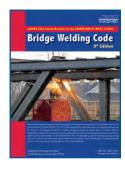
Paperback Code: BWC-8 | List Price: \$440 | Member Price: \$330



# AASHTO 2023 INTERIM REVISIONS TO THE AASHTO/AWS D1.5M/D1.5:2020 BRIDGE WELDING CODE, 8TH EDITION

Item Code: BWC-8-I1

PDF DOWNLOAD Code: BWC-8-I1-UL | List Price: \$27 | Member Price: \$20 5-USER PDF DOWNLOAD Code: BWC-8-I1-IP5 | List Price: \$115 | Member Price: \$85 10-USER PDF DOWNLOAD Code: BWC-8-I1-10 | List Price: \$203 | Member Price: \$150



### **BRIDGE CONSTRUCTION**

### AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, 4TH EDITION, WITH 2020, 2022, AND 2023 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. 591 pp.** 

PDF DOWNLOAD Code: LRFDCONS-4-UL | List Price: \$479 | Member Price: \$355

LOOSELEAF Code: LRFDCONS-4-M | List Price: \$599 | Member Price: \$444

LOOSELEAF & PDF COMBO Code: LRFDCONS-4-PUL | List Price: \$839 |

Member Price: \$621

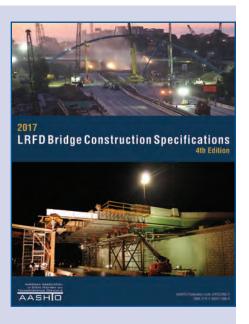
5-USER PDF DOWNLOAD Code: LRFDCONS-4-IP5 | List Price: \$2,037 |

Member Price: \$1,509

10-USER PDF DOWNLOAD Code: LRFDCONS-4-IP10 | List Price: \$3,594 |

Member Price: \$2,663

Interim Revisions Also Available Separately



# LRFD STEEL BRIDGE FABRICATION SPECIFICATIONS, 1ST EDITION, WITH 2024 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. 153 pp.** 



PDF DOWNLOAD Code: LRFDSFS-1-UL | List Price: \$196 | Member Price: \$145
5-USER PDF DOWNLOAD Code: LRFDSFS-1-IP5 | List Price: \$832 | Member Price: \$616
10-USER PDF DOWNLOAD Code: LRFDSFS-1-IP10 | List Price: \$1,468 | Member Price: \$1.088

2024 Interim Revisions Now Available.



Interim Revisions Also Available Separately

# 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 Also Available Separately

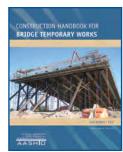
### CONSTRUCTION HANDBOOK FOR BRIDGE TEMPORARY WORKS, 2ND EDITION

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





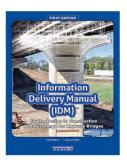
### **BRIDGE CONSTRUCTION (CONT'D)**

# 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



# 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.

GUDE SPECIFICATIONS FOR WIND LOADS ON BRIDGES DURING CONSTRUCTION

ASSESSMENT OF THE PROPERTY OF THE PROPERTY

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

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

### STRUCTURAL INSPECTION AND EVALUATION

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

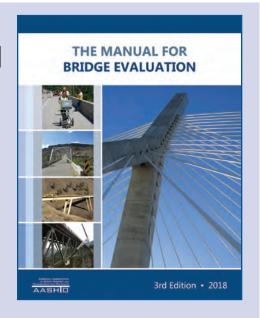
Item Code: MBE-3-M



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.** 

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



### **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, WITH 2022 AND 2024 INTERIM REVISIONS

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. 157 pp.** 

PDF DOWNLOAD Code: MBEI-2-UL | List Price: \$271 | Member Price: \$201 LOOSELEAF Code: MBEI-2-M | List Price: \$339 | Member Price: \$251 LOOSELEAF & PDF COMBO Code: MBEI-2-PUL | List Price: \$475 | Member Price: \$352 25-USER PDF DOWNLOAD Code: MBEI-2-IP25 | List Price: \$4,749 | Member Price: \$3,518

2024 Interim Revisions Now Available.

Interim Revisions Also Available Separately



# 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.** 

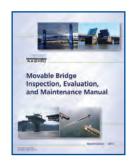
PDF DOWNLOAD Code: MBI-2-UL | List Price: \$489 | Member Price: \$362

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

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

2024 Interim Revisions Now Available.

Interim Revisions Also Available Separately



# 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. 96 pp.** 

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

Interim Revisions Also Available Separately



# 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

Interim Revisions Also Available Separately



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

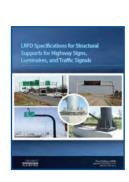
Item Code: LRFDLTS-1

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

Interim Revisions Available Separately



### **AASHTO-NSBA STEEL BRIDGE COLLABORATION**

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.



These AASHTO–NSBA Steel Bridge Collaboration publications are available to download, free of charge, from the AASHTO Store. Click on any of the titles below to link to the publication's page on the AASHTO Store for a full description, table of contents, and instructions to download copies.

### STEEL BRIDGE BEARING GUIDELINES, 2ND EDITION, G9.1—2022

PDF DOWNLOAD Code: NSBASBB-2 | Published: 2023

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

PDF DOWNLOAD Code: NSBAGDC-4 | Published: 2020

# STEEL BRIDGE ERECTION GUIDE SPECIFICATION, 4TH EDITION, \$10.1—2023

PDF DOWNLOAD Code: NSBASBEGS-4 | Published: 2023

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

PDF DOWNLOAD Code: NSBASBFQC-2 | Published: 2019

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

PDF DOWNLOAD Code: NSBASGBA-3 | Published: 2019

# STEEL BRIDGE FABRICATION GUIDE SPECIFICATION, 4TH EDITION, S2.1—2018

PDF DOWNLOAD Code: NSBASBF-4 | Published: 2018

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

PDF DOWNLOAD Code: NSBAATSC-1 | Published: 2017

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

PDF DOWNLOAD Code: NSBAGRSB-1 | 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 | Published: 2014

# OF STRUCTURAL BOLTING INSPECTORS, 2ND EDITION, G4.2—2021

PDF DOWNLOAD Code: NSBAQSBI-2 | Published: 2021

# GUIDELINES FOR DESIGN DETAILS, 1ST EDITION, G1.4—2006

PDF DOWNLOAD Code: NSBAGDD-1 | Published: 2007

# SAMPLE OWNERS QUALITY ASSURANCE MANUAL, 1ST EDITION, G4.4—2006

PDF DOWNLOAD Code: NSBASOQA-1 | Published: 2007

### SHOP DETAIL DRAWING PRESENTATION GUIDELINES, 1ST EDITION, G1.3—2002

PDF DOWNLOAD Code: NSBASDDP-1 | Published: 2003

# SHOP DESIGN DRAWINGS REVIEW/APPROVAL GUIDELINES, G1.1—2000

PDF DOWNLOAD Code: NSBASDDRAG-1 | 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 | Published: 2022

### HOT-DIP GALVANIZING SPECIFICATION, 1ST EDITION, S8.3—2022

PDF DOWNLOAD Code: NSBAHD-1 | Published: 2023

# GUIDELINES FOR FIELD REPAIRS AND RETROFITS OF STEEL BRIDGES, G14.2—2023

PDF DOWNLOAD Code: NSBFRR-1 | Published: 2024



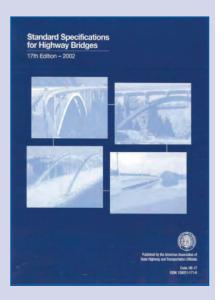
### STANDARD SPECIFICATIONS

# 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



# 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

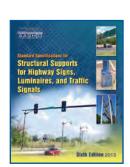
These specifications are a standard for the design, fabrication, and erection of the structural design of supports for highway signs, luminaires, and traffic signals. **2013. 340 pp.** 

PDF DOWNLOAD Code: LTS-6-UL | List Price: \$505 | Member Price: \$374 LOOSELEAF Code: LTS-6-M | List Price: \$631 | Member Price: \$468

LOOSELEAF & PDF COMBO Code: LTS-6-PUL | List Price: \$884 | Member Price: \$655

Interim Revisions Also Available Separately





# FIND BOOKS AND MORE AT THE AASHTO STORE!

The online AASHTO Store is your one-stop destination to find information about AASHTO publications—and purchase them. When you visit the AASHTO Store, you'll be able to—

- Purchase AASHTO publications in all available formats;
- ► Find detailed publication descriptions, tables of contents, and information about published interim revisions;
- Download lists of new and soon-to-be-released publications;
- > Find out about our various publication discounts and special pricing; and
- > Search the AASHTO Archive for historical publications.

And, when you visit the AASHTO Store, be sure to register for an online account and join the AASHTO Publications Mailing List.

# REGISTER FOR AN AASHTO ACCOUNT

to enjoy lots of benefits and savings, including—

- ▶ Easy online account management;
- Immediate access to electronic publications;
- ▶ Free domestic shipping;
- ► Automatic publication updates; and
- ▶ Regular information about new publications and special promotions.

To register for a free, online AASHTO Account, click the "MY ACCOUNT" at the top right of any page.

# JOIN THE AASHTO PUBLICATIONS MAILING LIST

to stay up to date with AASHTO Publications news, including—

- Weekly email briefs with the latest AASHTO publications news;
- Our monthly newsletter, the AASHTO Publications Update;
- ▶ Bi-monthly AASHTO Publications Catalog;
- ► Notifications about new publication releases; and
- ▶ Periodic alerts about special discounts and promotions.

To join the AASHTO Publications Mailing List, click "MAILING LIST SUBSCRIBE/ UNSUBSCRIBE" in the footer of any page.

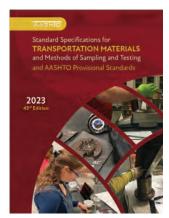
Visit the AASHTO Store online at store.transportation.org

AASHO

# **MATERIALS, TESTING & PAVEMENT**

### MATERIALS AND TESTING





STANDARD SPECIFICATIONS FOR TRANSPORTATION MATERIALS AND METHODS OF SAMPLING AND TESTING, AND AASHTO PROVISIONAL STANDARDS, 43RD EDITION—2023

(THE "MATERIALS STANDARDS")

Item Code: HM-43

#### **4 NEW AND 100 REVISED STANDARDS!**

Developed by the AASHTO Committee on Materials and Pavements, the AASHTO Materials Standards contain specifications, recommended practices, test methods, and provisional standards 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. **2023. 5,787 pp.** 

### **REVISIONS TO THE 2023 EDITION**

In addition to typical revisions to harmonize industry standards, update technology, and generally improve the standards, the 43rd edition includes the following two bundles of provisional standards with related revisions: Three new provisional standards (MP 48, PP 115, PP 116) that address the measurement of pavement macrotexture at highway speeds; and five standards (PP 106, PP 107, PP 108, PP 109, PP 110), first published in 2021, that address the assessments of different functions for transverse pavement profilers.

#### **AVAILABLE FORMATS**

The 2023 edition of the Materials Standards is available to purchase as a PDF Download publication.

Customers can purchase either a single-user license, or choose among several multi-user licenses—2-user, 3-user, 5-user, 10-user, or 25-user—which offer increasingly deeper price discounts per user. PDF Downloads are fully searchable and include a fully linked table of contents, a summary of technical changes, a guide to revisions and history, a user-friendly bookmark structure, and the ability to add margin notes. Customers can also print any portion of the publication.

#### **PRICING**

PDF DOWNLOAD (Single-user) Code: HM-43-UL | List Price: \$1,040 | Member Price: \$770

2-USER PDF DOWNLOAD Code: HM-43-IP2| List Price: \$1,975 | Member Price: \$1,463

3-USER PDF DOWNLOAD Code: HM-43-IP3 | List Price: \$2,806 | Member Price: \$2,079

5-USER DOWNLOAD Code: HM-43-IP5 | List Price: \$4,418 | Member Price: \$3,273

10-USER PDF DOWNLOAD Code: HM-43-IP10 | List Price: \$7,796 | Member Price: \$5,775

25-USER PDF DOWNLOAD Code: HM-43-IP25 | List Price: \$18,191 | Member Price: \$13,475

#### INDIVIDUAL MATERIALS STANDARDS

To purchase PDF Download copies of individual Materials Standards, visit the AASHTO Store online at <u>store.transportation.org</u>, and enter the standard number in the search box at the top of the page.

A complete list of all individual Materials Standards is available at https://downloads.transportation.org/HM-43\_TableofContents.pdf.

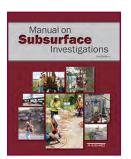
### MATERIALS AND TESTING (CONT'D)

#### 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 second edition, which supersedes the 1988 first 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. These updates are a reference for planning, executing, and using subsurface investigations and geotechnical characterizations in order to design, construct, maintain, and manage assets of transportation facilities. **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



### **Academic Discounts**

To show our support for engineering education, AASHTO offers special discounts on our technical standards and specifications, which are widely used in the curriculum of transportation and civil engineering programs.

Faculty members and students at U.S. colleges and universities can purchase AASHTO publications at our discounted AASHTO member price, by placing orders online at the AASHTO Store, store.transportation.org, and setting up an online AASHTO account using a school email address in order to authenticate academic status.



For more information about Academic Discounts, visit the AASHTO Store online at store.transportation.org, and click "ACADEMIC DISCOUNTS" In the footer of any page.

### **PAVEMENT**

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

Item Code: MEPDG-3-M

This revised edition includes the following revisions and updates from the previous 2015 2<sup>nd</sup> edition: 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.** 

Mechanistic Empireal Provement Design Guide

- A Manual of Practice

TANTES

SENTIA

AASHTO

(BRA

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

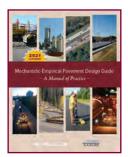
PAPERBACK & PDF COMBO Code: MEPDG-3-M-PUL | List Price: \$260 | AASHTO Member Price: \$193 5-USER PDF DOWNLOAD Code: MEPDG-3-IP5 | List Price: \$631 | AASHTO Member Price: \$468 10-USER PDF DOWNLOAD Code: MEPDG-3-P10 | List Price: \$1,114 | AASHTO Member Price: \$825

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

Item Code: MEPDG-3S

This supplement to the Mechanistic-Empirical Pavement Design Guide, 3rd Edition, published in 2020, includes an updated top-down cracking fatigue model employing Paris' Law of crack propagation for generating mechanistic responses, as well as predictions for both area of longitudinal cracking and average crack depth, both of which improve the overall MEPDG methodology for predicting fatigue cracking initiated at the surface of an asphalt pavement. **2021. 33 pp.** 

PDF DOWNLOAD Code: MEPDG-3S-UL | List Price: \$38 | AASHTO Member Price: \$28 PAPERBACK Code: MEPDG-3S | List Price: \$47 | AASHTO Member Price: \$35

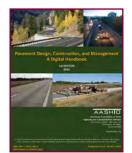


# PAVEMENT DESIGN, CONSTRUCTION, AND MANAGEMENT: A DIGITAL HANDBOOK, 1ST EDITION

Item Code: PDCM-1

This web-based publication is meant to be a 'one-stop shop' for pavement engineering. It provides an in-depth discourse on the structural pavement design analysis for each pavement type, with particular attention paid to Mechanistic-Empirical techniques. **2015.** 

**SINGLE-USER WEB-BASED** Code: PDCM-1-WB1 | List Price: \$238 | Member Price: \$176 **5-USER WEB-BASED** Code: PDCM-1-WB5 | List Price: \$1,010 | Member Price: \$748 **10-USER WEB-BASED** Code: PDCM-1-WB10 | List Price: \$1,782 | Member Price: \$1,320



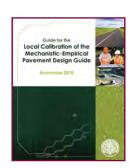
# GUIDE FOR THE LOCAL CALIBRATION OF THE MECHANISTIC-EMPIRICAL PAVEMENT DESIGN GUIDE, 1ST EDITION

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



### PAVEMENT (CONT'D)

### 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. The 1998 Supplement includes alternative design procedures for use in place of, or in conjunction with, sections in the guide that describe rigid pavement design and rigid pavement joint design. **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



# 1998 SUPPLEMENT TO THE AASHTO GUIDE FOR DESIGN OF PAVEMENT STRUCTURES, 4TH EDITION

Item Code: GDPS-4S

This supplement to the AASHTO Guide for Design of Pavement Structures includes alternative design procedures for use in place of or in conjunction with Part II, Pavement Design Procedures for New Construction or Reconstruction; Section 3.2, Rigid Pavement Design; and Section 3.3, Rigid Pavement Joint Design. **1998. 80 pp.** 

PDF DOWNLOAD Code: GDPS-4S-UL | List Price \$45 | Member Price \$33 PAPERBACK Code: GDPS-4S | List Price \$56 | Member Price \$41

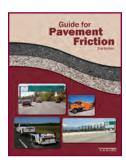


### **GUIDE FOR PAVEMENT FRICTION, 2ND EDITION**

Item Code: GPVF-2

This guide contains recommendations and guidelines for managing and designing highway pavements for friction. It is designed for use by highway materials, construction, pavement management, safety, design, and research engineers, as well as others concerned with the friction and related surface characteristics of highway pavements. This second edition 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 additional information on alternative friction testing equipment has been added. **2022. 92 pp.** 





### **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



# MAINTENANCE

# 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

### AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES, 4TH EDITION

Item Code: MM-4

This manual describes the various processes, methods, and materials that are applied to maintain bridge and highway systems effectively. The manual is based on information gleaned from highway transportation literature on maintenance and from NCHRP SP20-07, Task 170. This edition includes a chapter on "Systems Operation and Management." **2007. 372 pp.** 







# 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



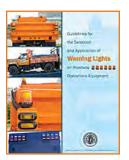
### **MAINTENANCE** (CONT'D)

# 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



# 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



### **GUIDELINES FOR VEGETATION MANAGEMENT, 1ST EDITION, WITH APPENDICES**

Item Code: GVM-1

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



# **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. This 2020 10th edition supersedes the 2008 9th edition. 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

### **2022 INTERIM REVISIONS TO THE GUIDE SPECIFICATIONS** FOR HIGHWAY CONSTRUCTION, 10TH EDITION

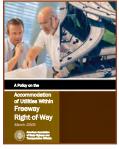
ITEM CODE: GSH-10-I1

These interim revisions to the guide specifications provide an update on best practices for pavement preservation, including emulsified asphalt chip seal, hot-applied asphalt chip seal, microsurfacing, emulsified asphalt fog seal, diamond grinding, and slurry systems. 2022. 102 pp.

PDF DOWNLOAD Code: GSH-10-I1-UL | List Price: \$119 | Member Price: \$88 PAPERBACK Code: GSH-10-I1 | List Price: \$149 | Member Price: \$110 PAPERBACK & PDF COMBO Code: GSH-10-I1-PUL | List Price: \$208 | Member Price: \$154 5-USER PDF DOWNLOAD Code: GSH-10-I1-IP5 | List Price: \$505 | Member Price: \$374 10-USER PDF DOWNLOAD Code: GSH-10-I1-IP10 | List Price: \$891 | Member Price: \$660

# Guide Specifications for **Highway Construction**

# PARTNERING HANDBOOK





### **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

### A POLICY ON THE ACCOMMODATION OF UTILITIES WITHIN FREEWAY **RIGHT-OF-WAY, 5TH EDITION**

Item Code: AU-5

This AASHTO policy describes the extent and manner in which public utilities may cross or otherwise occupy freeway rights-of-way. This 2005 5th edition supersedes the 1989 4th edition. 2005. 16 pp.

PDF DOWNLOAD Code: AU-5-UL | List Price: \$19 | Member Price: \$14

### A GUIDE FOR ACCOMMODATING UTILITIES WITHIN HIGHWAY RIGHT-OF-WAY, **4TH EDITION**

Item Code: GAU-4

This guide describes the extent and manner in which public utilities may cross or otherwise occupy highway rights-of-way. This 2005 4th edition supersedes the 1994 3rd edition. 2005. 28 pp.

PDF DOWNLOAD Code: GAU-4-UL | List Price: \$19 | Member Price: \$14

# PASSENGER RAIL & FREIGHT

### FRAMEWORK FOR ASSESSING THE BUSINESS CASE ROI FOR INTERCITY PASSENGER RAIL CORRIDOR INVESTMENTS, 1ST EDITION

Item Code: ROIIPR-1

This guide has been developed to assist cities, metropolitan agencies, state DOTs, and Federal agencies by providing a common methodology, utilizing best practice methods, to measure public benefits and assess return on investment (ROI) for proposed high-speed and intercity passenger rail (HS&IPR) projects. It is intended to assist public agencies to assess whether and how they can most appropriately participate in supporting and enabling these projects. To accomplish this goal, the guide lays out ways to produce more robust and useful economic benefit evaluations, with results that can align widely recognized benefits and corresponding cost contributions. **2021. 74 pp.** 

Framework for Assessing the Business Case ROI for Intercity Passenger Rail Corridor Investments

ARENIE

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

### STATE RAIL PLANNING BEST PRACTICES, 1ST EDITION

Item Code: SRPG-1

This guidebook assists states in developing state rail plans that are compliant with the Passenger Rail Investment and Improvement Act (PRIIA) and customized to their unique circumstances. It serves as flexible guidance to states either launching state rail plans for the first time, or renewing older plans and seeking new funding. **2009. 94 pp.** 

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

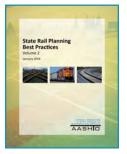


### **STATE RAIL PLANNING BEST PRACTICES, VOLUME 2**

Item Code: SRPG-1S

This supplement to the 2009 State Rail Planning Best Practices, 1st Edition, documents current best practices and summarizes states' activities to develop state rail plans since the enactment of the Passenger Rail Investment and Improvement Act (PRIIA). It also summarizes the experiences of states that participated in a state rail planning survey conducted by AASHTO in 2013. **2016. 41 pp.** 

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



### **SURVEY OF OPERATION LIFESAVER STATE PROGRAMS, 2015 REPORT**

Item Code: OPLIFE-1

Operation Lifesaver, Inc. (OLI) is a national nonprofit organization whose mission is to end collisions, injuries, and deaths at highway-rail grade crossings and on rail property. This report, which presents the findings of a survey co-sponsored by OLI and AASHTO, provides an overview of state OL organizations and their partnerships with community and rail-related partners, and state departments of transportation.

2015. 15 pp.

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



### **INTERCITY PASSENGER RAIL—ACHIEVING THE VISION—2009**

Item Code: IPRT-2

This report was developed in response to the increasing number of states that provide, or are planning to provide, intercity passenger rail service. Based on a decade of research, policy development, and advocacy, the report summarizes the work performed by the states over the preceding decade, the views of the states' partners and other commentators, and guidelines for advancing the effort This 2009 2nd edition supersedes the 2002 1st edition. **2009. 32 pp.** 

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



# HIGHWAY TRANSPORT & TRUCKING

# GUIDE FOR MAXIMUM DIMENSIONS AND WEIGHTS OF MOTOR VEHICLES, 5TH EDITION

Item Code: GSW-5

This guide provides information for states and commercial carriers that can be used in connection with vehicle size and weight issues, and permit practices directed towards improving safety, managing highway and bridge infrastructure, and streamlining regulatory processes. It contains definitions of commonly used terms, descriptions of vehicles in regular operation, dimension and weight limits, and an overview of the permitting process for overweight, oversize vehicles. It also provides an explanation of the rules and processes related to the movement of military vehicles. This 2016 5th edition supersedes the 2004 4th edition. **2016. 32 pp.** 



PDF DOWNLOAD Code: GSW-5-UL | List Price: \$36 | Member Price: \$27

# A SYNTHESIS OF SAFETY IMPLICATIONS OF OVERSIZE/OVERWEIGHT COMMERCIAL VEHICLES, 1ST EDITION

tem Code: OSOW-1

This report identifies known relationships between commercial vehicle safety and crash causation factors and provides a synthesis of safety implications of oversize/overweight (OS/OW) commercial vehicles. This information can be used to support commercial vehicle enforcement and permitting practices, as well as justify expenditures and investments on size and weight enforcement to enhance safety. The report also highlights the primary findings regarding the contributions of OS/OW to commercial vehicle crashes. **2009. 111 pp.** 



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

# Looking for Extra Savings on Your Next Publications Order?

Purchase a Hardcopy & PDF Combo!

Enjoy extra savings when you purchase a Hardcopy & PDF Combo, which includes both the hardcopy and single-user PDF Download versions of a publication, when both versions are available.

You'll pay full price for the hardcopyformat, but only 50% of the price of the PDF Download!

# ADMINISTRATION & ECONOMICS

# UNIFORM AUDIT AND ACCOUNTING GUIDE FOR AUDITS OF ARCHITECTURAL AND ENGINEERING (A/E) CONSULTING FIRMS, 2024 EDITION

Item Code: UAAG-5

use of this guide.

This guide is designed as a tool for state DOT auditors, Architectural/Engineering (A/E) firms, and public accounting firms that perform audits and attestations of A/E firms. The techniques presented focus on auditing and reporting procedures to be applied to costs that are incurred by A/E firms for engineering and design-related services performed on various federal, state, and local transportation projects. The guide provides general guidance only and is not meant to supersede Generally Accepted Government Auditing Standards (GAGAS), the Federal Acquisition Regulation (FAR), or any related laws or regulations. Because GAGAS and FAR Cost Principles change frequently, users should reference the applicable FAR version in conjunction with the





This 2024 edition, which supersedes the 2016 edition, incorporates several updates, refinements, and clarifications necessary to better align the contents with GAGAS and with current auditing standards. The revisions focus on assessing risk; linking assessed risks to specific responses/audit procedures; audit sampling; and assessing the results of audit procedures. Specifically, significant revisions were made to Chapters 9, General Audit Considerations; Chapter 10, Guidance for Developing Audit Procedures; and Chapter 12, Cognizance and Oversight. **2024. 171 pp.** 

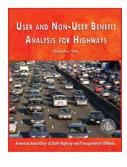
PDF DOWNLOAD Code: UAAG-5-UL | List Price: \$20 | Member Price: \$0

#### USER AND NON-USER BENEFIT ANALYSIS FOR HIGHWAYS. 3RD EDITION

Item Code: UBA-3

This manual is a resource for transportation planners in state, regional, and local governments in analyzing the benefits and costs of highway projects and presenting the results to decision makers, the media, and the public. This 2010 3rd edition supersedes the 2003 2nd edition. **2010. 488 pp.** 

PDF DOWNLOAD UBA-3-UL | List Price: \$127 | Member Price: \$94



### **AASHTO TRANSPORTATION GLOSSARY, 4TH EDITION**

Item Code: ATG-4

The 2009 AASHTO Transportation Glossary is an update and revision of the 1983 Transportation Glossary and the 1998 Transportation Glossary, which was unpublished. The largest additions in terminology were in bridge and drainage subjects. The new Glossary also includes lists of organizational acronyms, abbreviations, and other glossary references. Terms and definitions in this glossary were taken from an unpublished 1998 AASHTO Glossary and supplemented with definitions listed in AASHTO publications issued after 1998. Several additional sources were also referenced, including the Highway Capacity Manual, Manual on Uniform Traffic Control Devices, Code of Federal Regulations, Title 23, an FHWA list of roundabout terminology, and the Transportation Research Thesaurus. Glossary terms are listed in alphabetical order regardless of transportation mode. However, the glossary also includes two indexes, subject area and keyword, which provide cross references for the user. This 2009 4th edition supersedes the 1983 and 1998 editions. **2009. 240 pp.** 

AASHTO Transportation Glossary

PDF DOWNLOAD Code ATG-4-UL | List Price: \$15 | Member Price: \$11 PAPERBACK Code ATG-4 | List Price: \$19 | Member Price: \$14

# **OPERATIONS**

### TRANSPORTATION OPERATIONS MANUAL, 1ST EDITION

Item Code: TOM-1

This manual was created as a resource for transportation agencies to develop and sustain the operational capabilities and strategies needed to preserve and optimize transportation system performance. It is designed to guide transportation leaders and practitioners as they define and support their transportation systems management and operations (TSMO) efforts. The manual incorporates all levels of TSMO—strategic, programmatic, and tactical—and expands current TSMO practice through a more cohesive approach that helps agencies and their partners gain familiarity with generally accepted operational improvements, as well as develop appropriate future applications.

PDF DOWNLOAD Code: TOM-1-UL | List Price: \$844 | Member Price: \$625

**5-USER PDF DOWNLOAD** Code: TOM-1-IP5 | List Price: \$3,586 | Member Price: \$2,656 | **10-USER PDF DOWNLOAD** Code: TOM-1-IP10 | List Price: \$6,328 | Member Price: \$4,688



# FUNDAMENTAL CAPABILITIES OF EFFECTIVE ALL-HAZARDS INFRASTRUCTURE PROTECTION, RESILIENCE, AND EMERGENCY MANAGEMENT FOR STATE DEPARTMENTS OF TRANSPORTATION

Item Code: HAZ-1

This report provides state DOT managers with an overview of an effective all-hazards security management program. **2015. 72 pp.** 

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



# MANAGING CATASTROPHIC TRANSPORTATION EMERGENCIES: A GUIDE FOR TRANSPORTATION EXECUTIVES, 1ST EDITION

Item Code: MCTE-1

This report includes information on the types of emergency events that impact transportation agencies, ways to manage these events, and an overview of the issues that should be considered in preparing for all-hazards emergency incidents. **2015. 65 pp.** 

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



### SYSTEMS OPERATIONS AND MANAGEMENT GUIDANCE

Item Code: SOMG-1

The Systems Operations and Management (SO&M) Guidance website, http://www.aashtotsmoguidance.org, is an online tool that utilizes best practices and custom-tailored self-evaluations to identify key program, process, and institutional pre-conditions to achieve more effective SO&M and to develop action plans for improved required capabilities. **2012.** 

WEB-BASED Code: SOMG-1 | This is a FREE publication.



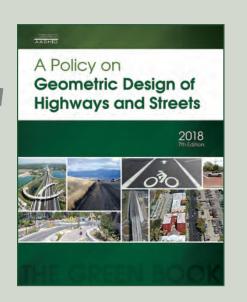
# **DESIGN & TRAFFIC**

# A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, 7TH EDITION (THE "GREEN BOOK")

Item Code: GDHS-7

The AASHTO "Green Book" contains the current design research and practices for highway and street geometric design. It provides guidance to engineers and designers who strive to make unique design solutions that meet the needs of highway and street users on a project-by-project basis. It describes how geometric design elements affect multiple transportation modes and recognizes the relationship between geometric design features and traffic operations. This 2018 7th edition, which supersedes the 2011 6th edition, presents an updated framework for geometric design that is more flexible, multimodal, and performance-based than previous editions. **2018. 1,047 pp.** 

PDF DOWNLOAD Code: GDHS-7-UL | List Price: \$342 | Member Price: \$253 PAPERBACK Code: GDHS-7 | List Price: \$427 | Member Price: \$316 PAPERBACK & PDF COMBO Code: GDHS-7-PUL | List Price: \$598 | Member Price: \$443



### **ROADSIDE DESIGN GUIDE, 4TH EDITION**

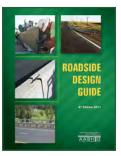
Item Code: RSDG-4

This design guide presents a synthesis of current information and operating practices related to roadside safety and focuses on safety treatments that can minimize the likelihood of serious injuries when a motorist leaves the roadway. Developed for use by design engineers and professionals involved in roadside safety, it is considered a significant tool that combines current research with practical experience. This 2011 4th edition, which supersedes the 2006 3rd edition, has been updated to include hardware that has met

the evaluation criteria contained in *National Cooperative Highway Research Program (NCHRP)* Report 350: Recommended Procedures for the Safety Performance Evaluation of Highway Features. **2011. 356 pp.** 

PDF DOWNLOAD Code: RSDG-4-UL | List Price: \$267 | Member Price: \$198 PAPERBACK Code: RSDG-4 | List Price: \$334 | Member Price: \$248

PAPERBACK & PDF COMBO Code: RSDG-4-PUL | List Price: \$468 | Member Price: \$347



# GUIDELINES FOR GEOMETRIC DESIGN OF LOW-VOLUME ROADS, 2ND EDITION

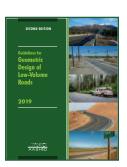
Item Code: VLVLR-2

This publication presents geometric design guidelines for low-volume roads that help highway designers select appropriate geometric designs for roads with low traffic volumes. The guidelines may be used on low-volume local and minor collector roads in lieu of the applicable policies in *A Policy on Geometric Design of Highways and Streets* (the "Green Book"). **2019. 100 pp.** 

PDF DOWNLOAD Code: VLVLR-2-UL | List Price: \$135 | Member Price: \$100

PAPERBACK Code: VLVLR-2 | List Price: \$169 | Member Price: \$125

PAPERBACK & PDF COMBO Code: VLVLR-2-PUL | List Price: \$236 | Member Price: \$175



### HIGHWAY AND STREET DESIGN (CONT'D)

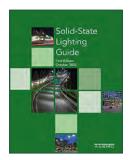
### **SOLID-STATE LIGHTING GUIDE, 1ST EDITION**

Item Code: SSLG-1

This guide offers guidance on design standards and methods of implementing Solid-State Lighting (SSL) technology, specifically as it relates to the AASHTO *Roadway Lighting Design Guide*, 7th Edition. It explains the differences between SSL systems and traditional lighting systems, and provides guidance on design, electrical systems, maintenance, operations, and environmental impacts. The guide also identifies areas where additional research is needed to investigate its continued application. **2022. 99 pp.** 

PDF DOWNLOAD Code: SSLG-1-UL | List Price: \$128 | Member Price: \$95

**5-USER PDF DOWNLOAD** Code: SSLG-1-IP5 | List Price: \$545 | Member Price: \$404 **10-USER PDF DOWNLOAD** Code: SSLG-1-IP10 | List Price: \$962 | Member Price: \$713

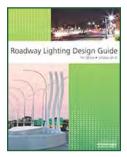


### **ROADWAY LIGHTING DESIGN GUIDE, 7TH EDITION**

Item Code: GL-7

This guide reflects current practices in roadway lighting. It provides a general overview of lighting systems from the point of view of state transportation departments and recommends minimum design parameters. It may be used by agencies to warrant and design roadway lighting systems and can be incorporated into their own roadway lighting policies. Agency-specific policy may also include types of lighting equipment and technologies, lighting calculation preferences, or maintenance issues. **2018. 89 pp.** 

PDF DOWNLOAD Code: GL-7-UL | List Price: \$68 | Member Price: \$50



### A GUIDE FOR ACHIEVING FLEXIBILITY IN HIGHWAY DESIGN, 1ST EDITION

Item Code: FHD-1

This guide shows highway designers how to think flexibly, recognize the many choices and options they have, and arrive at the best solution for the particular situation or context. It represents a major step toward institutionalizing Context Sensitive Solutions into state transportation departments and other agencies charged with transportation project development. **2004. 138 pp.** 

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

PAPERBACK Code: FHD-1 | List Price: \$37 | Member Price: \$28

PAPERBACK & PDF COMBO Code: FHD-1-PUL | List Price: \$52 | Member Price: \$39



### A POLICY ON DESIGN STANDARDS—INTERSTATE SYSTEM, 6TH EDITION

Item Code: DS-6

These standards reflect the minimum standards that apply to Interstate highway segments constructed on new right-of-way and segments undergoing reconstruction along existing right-of-way. These standards, which include changes based on research and practice since the previous 2005 edition, are designed for use with *A Policy on Geometric Design of Highways and Streets* (the "Green Book") **2016. 12 pp.** 

PDF DOWNLOAD Code: DS-6-UL | List Price: \$15 | Member Price: \$11



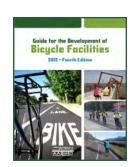
### **GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES, 4TH EDITION**

Item Code: GBF-4

This guide provides information on how to accommodate bicycle travel and operations in most riding environments. It presents sound guidelines that result in facilities that meet the needs of bicyclists and other highway users. Sufficient flexibility is permitted to encourage designs that are sensitive to local context and incorporate the needs of bicyclists, pedestrians, and motorists, however, suggested minimum dimensions are provided. **2012. 200 pp.** 

PDF DOWNLOAD Code: GBF-4-UL | List Price: \$178 | Member Price: \$132 PAPERBACK Code: GBF-4 | List Price: \$223 | Member Price: \$165

PAPERBACK & PDF COMBO Code: GBF-4-PUL | List Price: \$312 | Member Price: \$231



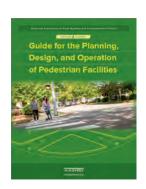
### HIGHWAY AND STREET DESIGN (CONT'D)

# GUIDE FOR THE PLANNING, DESIGN, AND OPERATION OF PEDESTRIAN FACILITIES, 2ND EDITION

Item Code: GPF-2

This guide provides guidance on the planning, design, and operation of pedestrian facilities along streets and highways. Specifically, the guide focuses on identifying effective measures for accommodating pedestrians on public rights-of-way. Appropriate methods for accommodating pedestrians, which vary among roadway and facility types, are described in this guide. The primary audiences for this manual are planners, roadway designers, and transportation engineers, whether at the state or local level, the majority of whom make decisions on a daily basis that affect pedestrians. This guide also recognizes the profound effect that land use planning and site design have on pedestrian mobility and addresses these topics, as well. **2021. 232 pp.** 

PDF DOWNLOAD Code: GPF-2-UL | List Price: \$186 | Member Price: \$138
PAPERBACK Code: GPF-2 | List Price: \$233 | Member Price: \$173
PAPERBACK & PDF COMBO Code: GPF-2-PUL | List Price: \$326 | Member Price: \$242
5-USER PDF DOWNLOAD Code: GPF-2-IP5 | List Price: \$792 | Member Price: \$587
10-USER PDF DOWNLOAD Code: GPF-2-IP10 | List Price: \$1,397 | Member Price: \$1,035

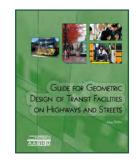


### TRANSIT FACILITIES

# GUIDE FOR GEOMETRIC DESIGN OF TRANSIT FACILITIES ON HIGHWAYS AND STREETS, 1ST EDITION

Item Code: TVF-1

This guide provides a comprehensive reference of current practice in the geometric design of transit facilities on streets and highways, including local buses, express buses, and bus rapid transit operating in mixed traffic, bus lanes, and high-occupancy vehicle lanes, as well as bus-only roads within street and freeway environments. It also covers streetcars and LRT running in mixed traffic and transit lanes, and within medians along arterial roadways. These guidelines are based on a review of relevant AASHTO, TRB, and ITE documents, as well as design reports provided by various transit agencies. They are designed for use by public agencies, practitioners, and developers in need of basic information about planning, locating, sizing, designing, and implementing transit facilities along roadways. **2014. 436 pp.** 



PDF DOWNLOAD Code: TVF-1-UL | List Price: \$208 | Member Price: \$154 PAPERBACK Code: TVF-1 | List Price: \$260 | Member Price: \$193

PAPERBACK & PDF COMBO Code: TVF-1-PUL | List Price: \$364 | Member Price: \$270

### **GUIDE FOR PARK-AND-RIDE FACILITIES, 2ND EDITION**

Item Code: GPRF-2

This guide provides a general knowledge of the park-and-ride planning and design process. Applicable local ordinances, design requirements, and building codes must be consulted for their effect on the planning and design process. Local data resources, development patterns, and transit networks may present unique opportunities for park-and-ride implementation and should be explored. **2004. 152 pp.** 

PDF DOWNLOAD Code: GPRF-2-UL | List Price: \$30 | Member Price: \$22



### GUIDE FOR HIGH-OCCUPANCY VEHICLE (HOV) FACILITIES, 3RD EDITION

Item Code: GHOV-3

This guide suggests methods and designs for dedicated facilities to encourage greater use of existing transportation systems, such as increased use of public transit (primarily buses), carpools, vanpools, or other ridesharing modes. Guidance is given for planning and design of preferential treatment for high-occupancy vehicles. **2004. 218 pp.** 

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



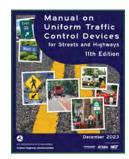
### TRAFFIC CONTROL DEVICES

#### MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 11TH EDITION

Item Code: MUTCD-11

### Paperback version of the new, 11th Edition of the Manual on Uniform Traffic Control Devices (MUTCD), Coming Soon!





In December 2023, the Federal Highway Administration (FHWA) released the new, 11th edition of their Manual on Uniform Traffic Control Devices (MUTCD), which updates and supersedes the previous 2009 edition. The FHWA edition is available to download, free of charge, on the FHWA website, mutcd.fhwa.dot.gov, however, only in a PDF format.

AASHTO, in collaboration with the American Traffic Safety Services Association (ATSSA) and the Institute of Transportation Engineers (ITE), is currently printing copies of this FHWA publication, which will be available at the end of April.

The paperback version will include a number of features, including a comprehensive index to enhance searchability; high-quality, color-matched graphics; and a layflat binding designed to withstand continued use.

\* AASHTO will continue to make the 2009 edition of the MUTCD (Item Code: MUTCD-10) available for those who need it to prepare for the PE exam.

### AASHTO GUIDELINES FOR SUPPLEMENTAL GUIDE SIGNING, 5TH EDITION

Item Code: GSGLC-5

These guidelines were developed to assist state DOTs and transportation agencies in selecting the most appropriate traffic generators for display on freeway and expressway supplemental guide signs. They provide a basis for these agencies to develop individual state policies, which consider local needs, customs, and legal requirements. The guidelines are incorporated by reference in the MUTCD, which recommends guidelines for developing appropriate policies on supplemental guide signs for traffic generators. **2016. 11 pp.** 

PDF DOWNLOAD Code: GSGLC-5-UL | List Price: \$19 | Member Price: \$14



### DRAINAGE

### **HIGHWAY DRAINAGE GUIDELINES, 4TH EDITION**

Item Code: HDG-4

These guidelines provide a consolidated overview of highway hydraulic design and discuss possible hydrology problems. **2007. 1,155 pp.** 

PDF DOWNLOAD Code: HDG-4-UL | List Price: \$30 | Member Price: \$22



### **AASHTO DRAINAGE MANUAL, 1ST EDITION**

Item Code: ADM-1

This manual provides transportation agencies with guidelines for establishing state-specific policies and procedures for the design of highway drainage facilities. It has been developed to provide hydraulics engineers with a basic working knowledge of hydrology and hydraulics. All basic design elements are included, such that the hydraulics engineer can design highway drainage with minimal assistance, the manual does not provide guidance on complex hydrologic or hydraulic problems. Volume One provides states with guidelines or examples for drainage design policies, criteria, and standards. Volume Two provides hydrologic and hydraulic design procedures that are frequently used by highway hydraulics engineers.al. **2014. 1,342 pp.** 

PDF DOWNLOAD Code: ADM-1-UL | List Price: \$178 | Member Price: \$132



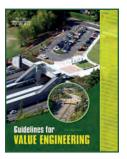
### PROJECT MANAGEMENT

### **GUIDELINES FOR VALUE ENGINEERING, 4TH EDITION**

Item Code: VE-4

Value Engineering (VE) is a function-oriented technique that has proven to be an effective management tool for achieving improved design, construction, and cost-effectiveness in various transportation program elements. Data collected by the Federal Highway Administration (FHWA) indicates that the return on investment can approach or exceed 100:1. These guidelines recognize the need for the prudent use of resources and revenues, while providing a quality transportation program. States that have active VE programs have realized additional benefits beyond design improvements and cost savings. **2017. 38 pp.** 

PDF DOWNLOAD Code: VE-4-UL | List Price: \$30 | Member Price: \$22

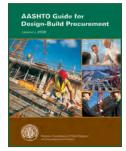


### AASHTO GUIDE FOR DESIGN-BUILD PROCUREMENT, 1ST EDITION

Item Code: DBP-1

This guide provides state transportation departments with strategies and methods for successful design-build implementation, including the preparation of requests for qualifications (RFQ), requests for proposals (RFP), and the selection of a qualified proposer. **2008. 204 pp.** 

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



### PRACTICAL GUIDE TO COST ESTIMATING, 1ST EDITION

Item Code: EST-1

This guide provides information to those charged with developing cost estimates and managing the estimating process. **2013. 214 pp.** 

PDF DOWNLOAD Code: EST-1-UL | List Price: \$112 | Member Price: \$83 PAPERBACK Code: EST-1 | List Price: \$140 | Member Price: \$104

PAPERBACK & PDF COMBO Code: EST-1-PUL | List Price: \$196 | Member Price: \$145



### **AASHTO GUIDE FOR CONSULTANT CONTRACTING, 1ST EDITION**

Item Code: GCC-1

This guide summarizes the results of a questionnaire that was developed for state and consultant practitioners in order to assess current practices. **2008. 128 pp.** 

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



# SAFETY

### **HIGHWAY SAFETY MANUAL, 1ST EDITION, WITH 2014 SUPPLEMENT**

Item Code: HSM-1-M

The Highway Safety Manual (HSM) 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. The HSM 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 three-volume HSM features a synthesis of validated highway research, procedures for including safety in project decisions, and analytical tools for predicting impact on road safety. For more information on the Highway Safety Manual, visit www.HighwaySafetyManual.org. 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

### **HIGHWAY SAFETY MANUAL, 1ST EDITION, 2014 SUPPLEMENT**

Item Code: HSM-1S

This supplement to the *Highway Safety Manual* includes two new chapters that help utilize the predictive method to estimate the expected average crash frequency (in total, by crash type, or by crash severity) for both freeways and ramps with known characteristics. A third chapter, Appendix B for Part C of the HSM-1, describes two specialized procedures to be used with the predictive method presented in the new chapters: the first procedure is used to calibrate the predictive models; the second, the Empirical Bayes Method, helps combine observed crash frequencies with the estimates provided by the predictive models. **2014. 324 pp.** 



PAPERBACK & PDF COMBO Code: HSM-1S-PUL | List Price: \$456 | Member Price: \$338



### MANUAL FOR ASSESSING SAFETY HARDWARE, 2ND EDITION

Item Code: MASH-2-M

This manual, commonly referred to as "MASH", is a set of performance criteria developed to encourage consistency in the crash testing and evaluation of roadside safety features. It is designed for use by state departments of transportation and other agencies concerned with roadside safety design. The manual includes a new matrix for cable barrier testing on slopes, modifications to several test vehicle dimensions, and updated test documentation requirements. It is designed to be consistent with, but not supersede, the AASHTO *Roadside Design Guide*, 4th Edition. **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

### SAFETY (CONT'D)

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.

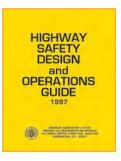


### HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE, 3RD EDITION

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



### The AASHTO Archive

AASHTO maintains an archive of historical editions of our technical standards and specifications, which have been superseded by current AASHTO editions.



To purchase archive editions, visit the AASHTO Store online at store.transportation.org, select "Historical References" from the pull-down menu at the top of the page, then search for publications of interest.

For more information about AASHTO Archive publications, visit the AASHTO Store online at store.transportation.org, and click "AASHTO Archive" in the footer of any page.

# ENVIRONMENT

### **CONSTRUCTION STORMWATER FIELD GUIDE**

Item Code: FGCP-1

This guide is a quick reference for inspectors and resident engineers in construction on topics related to installation, maintenance, and inspection of common best management practices. Using this guide helps departments of transportation stay in compliance with federal, state, and local regulations for improving stormwater quality, and provides guidance where local publications may currently be lacking. **2016. 96 pp.** 

**PDF DOWNLOAD** Code: FGCP-1-OL | This is a FREE Publication. **SPIRAL BOUND** Code: FGCP-1 | List Price: \$15 | Member Price: \$10



#### MAINTENANCE STORMWATER FIELD GUIDE

Item Code: FGMP-1

This guide is a quick reference for maintenance staff on topics related to best management practices inspections and common operational practices. Good housekeeping and other pollution source control measures are presented. This guide will help in complying with federal and state regulations for stormwater quality, as well as help achieve a greater level of environmental stewardship. **2016. 66 pp.** 

PDF DOWNLOAD Code: FGMP-1-OL | This is a FREE Publication.

SPIRAL BOUND Code: FGMP-1 | List Price: \$15 | Member Price: \$10



### LEANER AND GREENER: SUSTAINABILITY AT WORK IN TRANSPORTATION

Item Code: LAG-1

This report chronicles the contributions that state transportation agencies make to the environment. It showcases the efforts that transportation agencies are undertaking to speed up project delivery and cut costs, while maintaining or enhancing environmental quality. **2012. 54 pp.** 

PDF DOWNLOAD Code: LAG-1-OL | This is a FREE Publication.

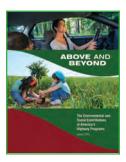


### **ABOVE AND BEYOND**

Item Code: AAB-1

Transportation agencies are increasingly going "above and beyond" to connect communities and their environments. This report describes the successful initiatives that transportation agencies have employed to advance sustainable transportation and contribute to the environmental, social, and economic well-being of their communities. **2008.100 pp.** 

 $\label{eq:pdf_download} \textbf{PDF_DOWNLOAD} \ \ \textbf{Code: AAB-1-OL} \ | \ \ \textbf{This is a FREE Publication}.$ 



# AN ACTION PLAN TO INTEGRATE PLUG-IN ELECTRIC VEHICLES WITH THE U.S. ELECTRICAL GRID, 1ST EDITION

Item Code: PEV-1

Plug-in electric vehicles (PEVs) offer a rare opportunity to save oil and, thereby, address four top policy concerns in the United States today: energy security, air quality, climate change, and economic growth. This collaborative Action Plan focuses on the steps necessary to integrate PEVs with the U.S. electrical grid using market-based solutions that foster innovation, minimize public cost, and maintain grid reliability. **2012. 60 pp.** 

PDF DOWNLOAD Code: PEV-1-OL | This is a FREE Publication.





### PRACTITIONER'S HANDBOOKS

These Practitioner's Handbooks provide practical advice on a range of environmental issues that arise during the planning, development, and operation of transportation projects. They are intended for use by project managers and others responsible for coordinating compliance with a wide range of regulatory requirements.

To download free copies of the Practitioner's Handbooks, visit the AASHTO Store online at <u>store.transportation.org</u>, and search by the handbook's code (listed below), or by the term "Practitioner's Handbook". **Available free of charge on the AASHTO Store**, <u>store.transportation.org!</u>

#### **Practitioner's Handbook #1**

Maintaining a Project File and Preparing an Administrative Record for a NEPA Study

PDF DOWNLOAD Code: PH01-2

#### **Practitioner's Handbook #2**

Responding to Comments on an Environmental Impact Statement PDF DOWNLOAD Code: PH02-2

### **Practitioner's Handbook #3**

Managing the NEPA Process for Toll Lanes and Toll Roads PDF DOWNLOAD Code: PH03-2  $\,$ 

### Practitioner's Handbook #4

Tracking Compliance with Environmental Commitments/Use of Environmental Monitors
PDF DOWNLOAD Code: PHO4-1

#### **Practitioner's Handbook #5**

Utilizing Community Advisory Committees for NEPA Studies PDF DOWNLOAD Code: PH05-1

### **Practitioner's Handbook #6**

Consulting Under Section 106 of the National Historic Preservation Act

PDF DOWNLOAD Code: PH06-2

#### **Practitioner's Handbook #7**

Defining the Purpose and Need and Determining the Range of Alternatives for Transportation Projects PDF DOWNLOAD Code: PH07-2

#### **Practitioner's Handbook #8**

Developing and Implementing an Environmental Management System in a State Department of Transportation PDF DOWNLOAD Code: PH08-1

### **Practitioner's Handbook #9**

Using the SAFETEA-LU Environmental Review Process (23 U.S.C. ß 139)
PDF DOWNLOAD Code: PH09-1

### Practitioner's Handbook #10

Using the Transportation Planning Process to Support the NEPA Process

PDF DOWNLOAD Code: PH10-1

#### **Practitioner's Handbook #11**

Complying with Section 4(f) of the U.S. DOT Act PDF DOWNLOAD Code: PH11-1

### **Practitioner's Handbook #12**

Assessing Indirect Effects and Cumulative Impacts under NEPA PDF DOWNLOAD Code: PH12-2

### Practitioner's Handbook #13

Developing and Implementing a Stormwater Management Program in a Transportation Agency, First Edition PDF DOWNLOAD Code: PH13-1

#### **Practitioner's Handbook #14**

Applying the Section 404(b)(1) Guidelines in Transportation Project Decision-Making PDF DOWNLOAD Code: PH14-2

#### **Practitioner's Handbook #15**

Preparing High-Quality NEPA Documents for Transportation Projects PDF DOWNLOAD Code: PH15-1

#### **Practitioner's Handbook #16**

Implementing Eco-Logical: Integrating Transportation Planning and Ecological Decision Making PDF DOWNLOAD Code: PH16-1

### **Practitioner's Handbook #17**

Complying with Section 7 of the Endangered Species Act for Transportation Projects
PDF DOWNLOAD Code: PH17-1

### **Practitioner's Handbook #18**

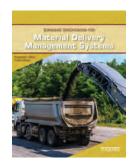
Addressing Air Quality Issues in the NEPA Process for Highway Projects
PDF DOWNLOAD Code: PH18-1

# DATA

### STANDARD SPECIFICATION FOR MATERIAL DELIVERY MANAGEMENT SYSTEMS,1ST EDITION

Item Code: MDMS-1

This specification provides haulers, agencies, contractors, suppliers, and vendors with a standardized format for digitalized communication of data associated with the delivery of material to a contract, including source (e-tickets); hauler; loading and delivery events; testing and contract administration; and agency verification data. Within the format of the specification, individual agencies will select which data blocks are necessary for the e-ticket and associated material delivery management system (MDMS). The specification also provides a list of possible data blocks that an agency may want to require. **2023. 69 pp.** 



PDF DOWNLOAD Code: MDMS-1-UL | List Price: \$81 | Member Price: \$60 5-USER PDF DOWNLOAD Code: MDMS-1-IP5 | List Price: \$344 | Member Price: \$255 10-USER PDF DOWNLOAD Code: MDMS-1-IP10 | List Price: \$608 | Member Price: \$450

### **COMMUTING IN AMERICA REPORTS**

This series of reports on commuting in America is produced by the AASHTO Census Transportation Planning Products (CTPP) Program. Established in 2012 by AASHTO and the U.S. Department of Transportation, the CTPP Program compiles census data on demographic characteristics, home and work locations, and journey-to-work travel flows to assist with a variety of state, regional, and local transportation policy and planning efforts. CTPP also supports corridor and project studies, environmental analyses, and emergency operations management.

These reports are available to download, free of charge, from the AASHTO Store, store.transportation.org.

COMMUTING IN AMERICA 2021: THE NATIONAL REPORT ON COMMUTING PATTERNS AND TRENDS—BRIEF 21.1. THE CHANGING NATURE OF WORK

Item Code: CA01-5

COMMUTING IN AMERICA 2021: THE NATIONAL REPORT ON COMMUTING PATTERNS AND TRENDS—BRIEF 21.2. VEHICLE AVAILABILITY PATTERNS AND TRENDS

Item Code: CA02-5

COMMUTING IN AMERICA 2021: THE NATIONAL REPORT ON COMMUTING PATTERNS AND TRENDS—BRIEF 21.3. THE EVOLUTION OF HOUSEHOLDS

Item Code: CA03-5

COMMUTING IN AMERICA 2021: THE NATIONAL REPORT ON COMMUTING PATTERNS AND TRENDS—BRIEF 21.4. EMERGING MODES AND HOW TO MEASURE THEM

Item Code: CA04-5

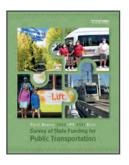
# REPORTS

### **FINANCE**

# SURVEY OF STATE FUNDING FOR PUBLIC TRANSPORTATION—FINAL REPORT 2023, BASED ON FY 2021 DATA

Item Code: SSFP-17

This annual report provides a snapshot of state-by-state investment in public transportation from federal, state, and local funding sources. Numerous tables and charts enable the reader to understand how different funding and tax mechanisms are used to support transit operations and capital projects. The report also addresses the impact of the COVID-19 pandemic on state transit programs, including creative and innovative solutions to help transit agencies overcome pandemic-related obstacles. The survey results reflect Fiscal Year 2021 data. **2023. 265 pp.** 

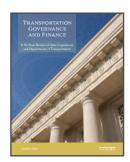


PDF DOWNLOAD Code: SSFP-17-UL | List Price: \$34 | Member Price: \$24 5-USER PDF DOWNLOAD Code: SSFP-17-IP5 | List Price: \$143 | Member Price: \$106 10-USER PDF DOWNLOAD Code: SSFP-17-IP10 | List Price: \$253 | Member Price: \$188

# TRANSPORTATION GOVERNANCE AND FINANCE: A 50-STATE REVIEW OF STATE LEGISLATURES AND DEPARTMENTS OF TRANSPORTATION, 3RD EDITION

Item Code: TGF-3

Based on survey data from state DOT personnel and other transportation stakeholders, this report is a comprehensive, up-to-date reference on how the fifty states and the District of Columbia provide and pay for their transportation systems. The report details all transportation funding sources and finance tools that are now in use for every mode, in every state. An update to the previous 2011 and 2016 reports, this third edition of the report integrates survey respondents' lessons learned and on-the-ground experiences. The report also includes new topics of interest, such as emerging jurisdictional issues for state DOTs, state entities with a less direct role in transportation issues, state actions to optimize available funding and increase local flexibility, and the impacts of the COVID-19 pandemic on state transportation governance and finance. **2022. 813 pp.** 



PDF DOWNLOAD Code: TGF-3-OL | This is a FREE publication.

### **2022 AASHTO SALARY SURVEY**

Item Code: SS-22

This annual report provides job classifications and salary information on positions currently used by the transportation industry. It contains 89 matched titles, divided into 5 broad job categories: Administrative; Transportation Engineers; General; Maintenance; and Other. Each title includes a description, number of incumbents, salary range, benefits, and actual salary. The survey is provided in two formats: a PDF download publication, which includes the full data of the report, and an Excel spreadsheet, which allows users to sort the data and perform specialized data analysis. State DOT organizational charts can be accessed on the U.S. DOT National Transportation Library website at https://transportation.libguides.com/statedotorgcharts.



AA

PDF DOWNLOAD Code: SS-22-OL | This is a FREE publication.

#### 2022 ANNUAL AASHTO STATE DOT HR METRICS REPORT

Item Code: HRM-2



This annual report provides key HR metrics from state departments of transportation (DOTs) that responded to a survey developed by the AASHTO Committee on Human Resources and the Montana Department of Transportation. In the survey, state DOTs were asked to provide information on diversity data-gender, race, and ethnicity data—for the entire agency and broken down by EEO position categories. The collection and reporting of this data will help create a uniform set of metrics to guide nationwide policies, processes, and best practices. **2024. 55 pp.** 

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



### **AVIATION**

# THE IMPACT OF GENERAL AVIATION ON STATE AND LOCAL ECONOMIES\_STATE REPORTS, 2023

Item Code: IGA-3

This report—a joint effort of the Alliance for Aviation Across America, the National Association of State Aviation Officials, and AASHTO—has been developed to help communicate the importance of general aviation to our state and local communities, and our national economy. General aviation is a lifeline to vital products, supplies, and services for thousands of communities across the United States, a crucial part of our national infrastructure, and a major economic driver. This revised report considers the latest general aviation economic data, the key issues that general aviation supports, and emerging aviation technologies which, increasingly, interact with general aviation. **2023. 58 pp.** 

PDF DOWNLOAD Code: IGA-3-OL | This is a FREE publication.

### **FREIGHT**

### **AASHTO FREIGHT RAIL STUDY SUPPORT SERVICES, AUGUST 2018**

Item Code: FRBL-2

This report examines changes to the economy and rail industry since the release of the 2002 Freight Rail Bottom Line Report. The report focuses on the industries most impacted by publicly funded improvements to rail infrastructure, as well as the appropriateness of public/private partnerships to advance nationally significant rail network projects. 2018. 104 pp.

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

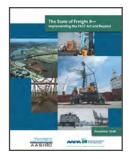


### STATE OF FREIGHT II—IMPLEMENTING THE FAST ACT AND BEYOND

Item Code: SOF-2

This report provides a snapshot of where states are collectively in developing state freight plans and a baseline on what future projected investments are needed to build out the nation's 21st century freight network. State of Freight II reports on how states are already funding freight-specific investments through state dedicated or discretionary funding, and how these funding sources can potentially work with Federal freight investments. This report follows on the heels of the American Association of Port Authorities' 2015 The State of Freight report, which identified a baseline investment need of \$29 billion in seaport landside transportation infrastructure project investments over the next decade to keep pace with rising freight volumes and increasing population density in metropolitan areas. **2016. 33 pp.** 

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

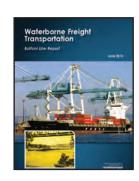


### WATERBORNE FREIGHT TRANSPORTATION: BOTTOM LINE REPORT

Item Code: WFT-1

This report presents a comprehensive overview of the U.S. marine transportation system and documents its importance to the strength and competitiveness of the nation's economy. The report also details the challenges that the system faces, and offers options to better manage the system, as well as increase investment. **2013. 112 pp.** 

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



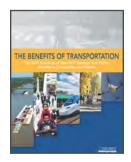
### COMMUNICATIONS

# THE BENEFITS OF TRANSPORTATION: THE 2021 ROUND-UP OF STATE DOT SOLUTIONS THAT DELIVER BENEFITS TO COMMUNITIES AND CITIZENS

Item Code: BR2021-1

This report illustrates the many economic and quality of life benefits delivered by state department of transportation infrastructure projects. Building off an inaugural analysis issued in 2020, the report and its supporting website showcase specific transportation projects and programs on a state-by-state basis that support economic development and improve people's lives. **2021. 12 pp.** 

PDF DOWNLOAD Code: BR2021-1-OL | This is a FREE publication.



### COMMUNICATIONS GUIDE FOR STATE DEPARTMENTS OF TRANSPORTATION

Item Code: CGDOT-1

This guide is intended to help DOT communications divisions to: develop a strategic framework and strategy for internal and external communications, utilize social media to engage customers, tell the story of your DOT's performance and its accomplishments, improve employee engagement with a first-rate internal communications program, achieve consistent messaging, develop or refresh the DOT "brand," and better communicate the DOT mission to the public and stakeholders. **2017. 48 pp.** 

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



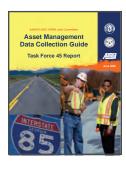
### AASHTO-AGC-ARTBA JOINT TASK FORCE

# ASSET MANAGEMENT DATA COLLECTION GUIDE, AASHTO-AGC-ARTBA TASK FORCE 45 DOCUMENT, SINGLE USER PDF DOWNLOAD

Item Code: TF45-1

This Asset Management Data Collection Guide contains information on several highway right-of-way assets including pavements, bridges, culverts, guardrails, and drainage structures. This guide describes the functional characteristics of each asset type, the data that are usually collected about the asset, general data collection methods, equipment and/or technology that is employed to acquire the data, the formats and standards applied to data transfer and storage, and how the information is used for condition assessment, and suggests performance and condition standards. **2006. 100 pp.** 

PDF DOWNLOAD Code: TF45-1-UL | List Price: \$24 | Member Price: \$18



# **ASSET MANAGEMENT & PLANNING**

# AASHTO TRANSPORTATION ASSET MANAGEMENT GUIDE: A FOCUS ON IMPLEMENTATION, 2ND EDITION

Item Code: TAMGFI-2

This guide aims to encourage transportation agencies to address strategic questions as they confront the task of managing the surface transportation system. Drawn from both national and international knowledge and experience, it provides guidance to state DOT decision makers, as well as county and municipal transportation agencies, to assist them in realizing the most from financial resources now and in the future, preserving highway assets, and providing the service expected by customers. Divided into two parts, Part One focuses on leadership and goal and objective setting, while Part Two is more technically orientated. This 2020 2nd edition supersedes the 2011 1st edition.

AASHTO
Transportation
Asset Management Guide
A POCUS ON IMPLEMENTATION

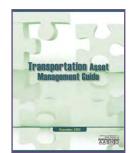
PDF DOWNLOAD Code: TAMGFI-2-UL | List Price: \$178 | Member Price: \$132 5-USER PDF DOWNLOAD Code: TAMGFI-2-IP5 | List Price: \$757 | Member Price: \$561 10-USER PDF DOWNLOAD Code: TAMGFI-2-IP10 | List Price: \$1,337 | Member Price: \$990

### TRANSPORTATION ASSET MANAGEMENT GUIDE, VOLUME 1

Item Code: TAMG-1

State transportation officials at all levels face the task of managing a wide range of assets to meet public, agency, and legislative expectations. This study interprets transportation asset management as a strategic approach to managing both physical transportation infrastructure and other types of assets. In this context, transportation asset management promotes more effective resource allocation and utilization, based upon quality information. **2002. 146 pp.** 

**PDF DOWNLOAD** Code: TAMG-1-OL | This is a FREE Publication.

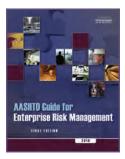


### **AASHTO GUIDE FOR ENTERPRISE RISK MANAGEMENT, 1ST EDITION**

Item Code: ERM-1

This guide provides state departments of transportation with a comprehensive framework to identify and manage risk, as well as establish and maintain an enterprise risk management program. It includes extensive summaries of how risk management is being applied nationally and internationally to typical transportation program areas. **2016. 226 pp.** 

PDF DOWNLOAD Code: ERM-1-UL | List Price: \$127 | Member Price: \$94

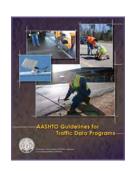


### **AASHTO GUIDELINES FOR TRAFFIC DATA PROGRAMS, 2ND EDITION**

Item Code: GTDP-2

The objective of these guidelines is to improve the quality of the traffic information that supports decisions at all levels of the transportation profession. Traffic data programs are essential for state departments of transportation to accomplish their mission of ensuring safety and mobility to the traveling public. Traffic data supports capital investment programs and budgets, as well as effective design and maintenance programs. These guidelines are a reference for professional traffic monitoring and establish recommended national traffic monitoring practices that reflect current practice and advances made in previous years. This 2009 2nd edition supersedes the 1992 1st edition. **2009. 286 pp.** 

PDF DOWNLOAD Code: GTDP-2-UL | List Price: \$89 | Member Price: \$66







# **SAVE THE DATES:**2024 AASHTO MEETINGS

AASHO

### **GIS for Transportation Symposium**

**April** 2–5, 2024 | The Westin Peachtree Plaza | Atlanta, GA

Committee on Right of Way, Utilities, and Outdoor Advertising Control (CRUO)

April 7–11, 2024 | The Hyatt Regency | Bellevue, WA

### **AASHTO Spring Meeting**

April 23–26, 2024 | Monona Terrace | Madison, WI

### Committee on Bridges and Structures

June 15–21, 2024 | The Westin | Indianapolis, IN

### **AASHTO Product Evaluation & Audit Solutions**

June 22–28 2024 | The Sheraton | Kansas City, MO

### **Committee on Traffic Engineering**

June 23–27, 2024 | Holiday Inn by the Bay | Porland, ME

### **Research Advisory Committee**

July 21–25, 2024 | Hyatt Regency | Columbus, OH

### Committee on Design

August 18–22, 2024 | Hyatt Regency Portland | Portland, OR

### **Committee on Construction**

**September** 8–13, 2024 | Holiday Inn by the Bay | Portland, ME

### Council on Rail

September 23–26, 2024 | Location TBD | Norfolk, VA

### **AASHTO Annual Meeting**

Oct 29-Nov 1, 2024 | Philadelphia Marriott Downtown | Philadelphia, PA

Check AASHTO's meetings page to see when new meetings are added to the schedule.

transportation.org/meetings



AASHID American Association of State Highway and Transportation Officials

555 12th Street NW, Suite 1000, Washington, DC 20004 store.transportation.org | transportation.org