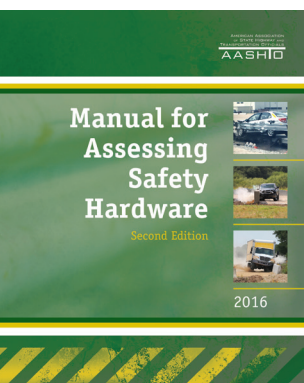
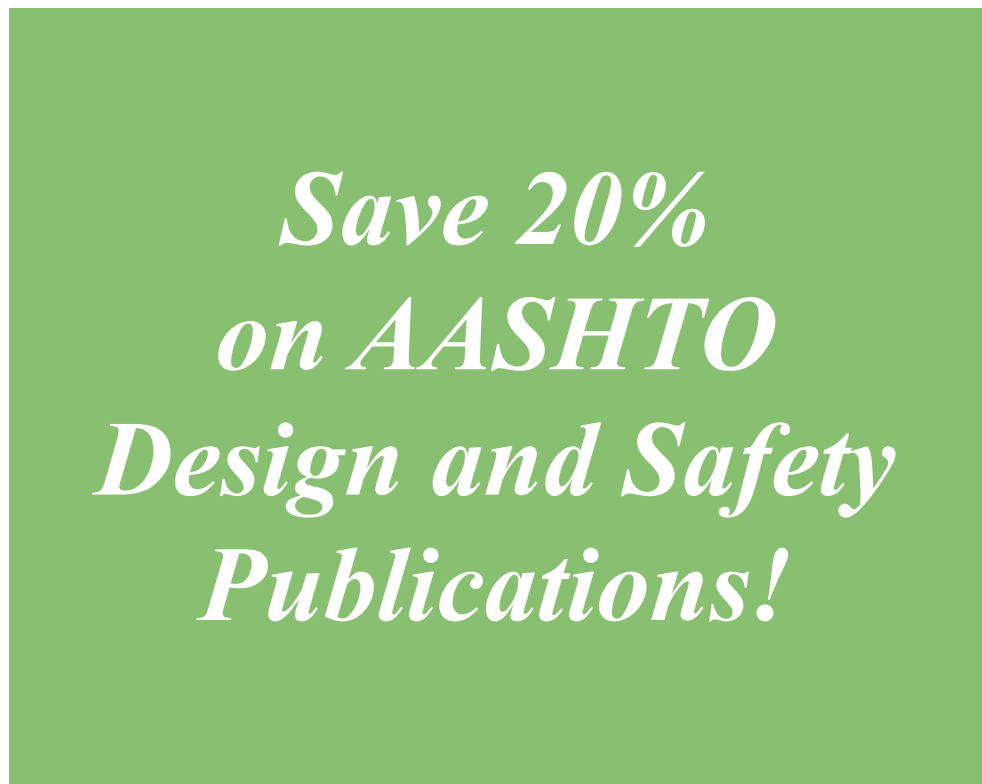
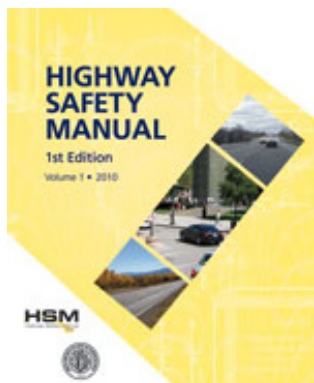
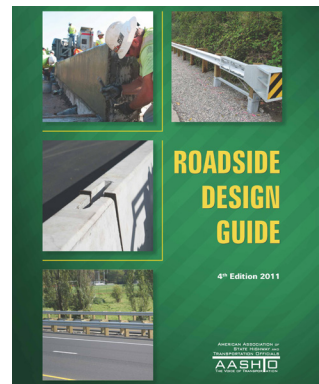
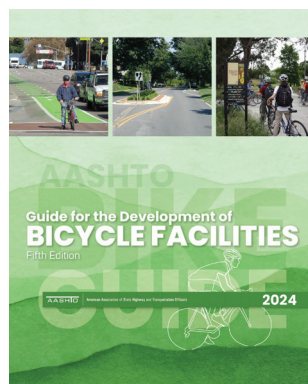
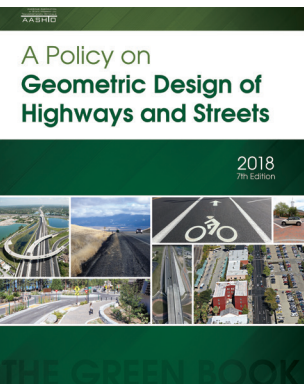


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# DESIGN & TRAFFIC

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

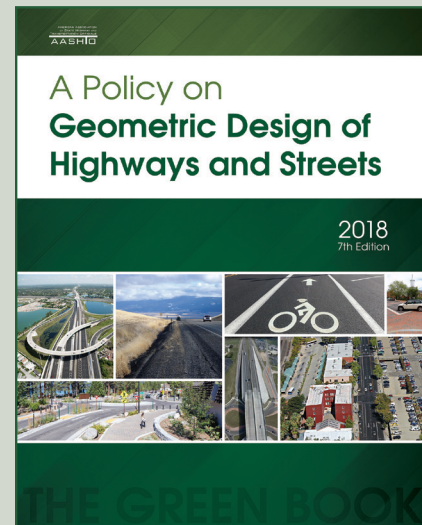
Item Code: GDHS-7

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

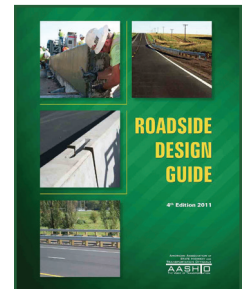
Item Code: RSDG-4

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

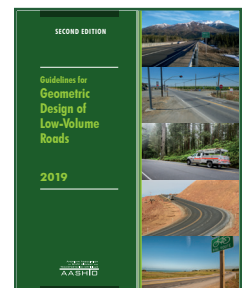
Item Code: VLVL-2

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: VLVL-2-UL | List Price: \$135 | Member Price: \$100

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

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



# HIGHWAY AND STREET DESIGN (CONT'D)

## SOLID-STATE LIGHTING GUIDE, 1ST EDITION

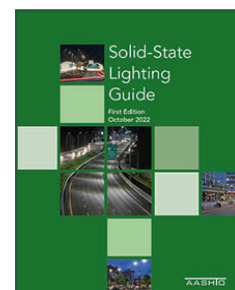
Item Code: SSLG-1

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

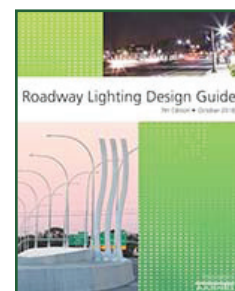


## ROADWAY LIGHTING DESIGN GUIDE, 7TH EDITION

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

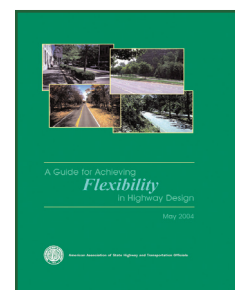
Item Code: FHD-1

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

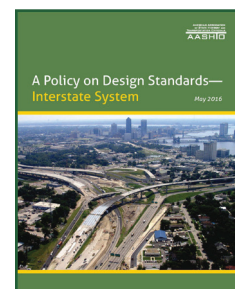


## A POLICY ON DESIGN STANDARDS—INTERSTATE SYSTEM, 6TH EDITION

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, 5TH EDITION

Item Code: GBF-5

This Guide provides information on the planning, design, and operation of bikeways along streets, roads, and highways, and on paths along independent alignments, in urban, suburban, and rural settings. It encourages a flexible approach to design bikeways, emphasizing the role of the engineer, planner, and designer in determining appropriate bikeway types and design dimensions, based on project-specific conditions and existing and future performance. It provides information to assist in choosing the appropriate combination of features, design values, and materials to create the design, while considering the context of the project area and surrounding environment. **2024. 626 pp.**



**PDF DOWNLOAD** Code: GBF-5-UL | List Price: \$392 | Member Price: \$290

**PAPERBACK** Code: GBF-5 | List Price: \$548 | Member Price: \$406

**PAPERBACK & PDF COMBO** Code: GBF-5-PUL | List Price: \$744 | Member Price: \$551



# 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.**

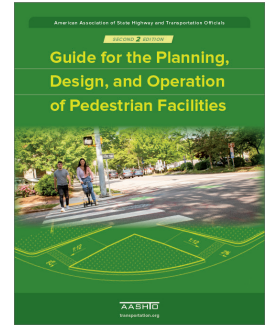
**PDF DOWNLOAD** Code: GPF-2-UL | List Price: \$186 | Member Price: \$138

**PAPERBACK** Code: GPF-2 | List Price: \$233 | Member Price: \$173

**PAPERBACK & PDF COMBO** Code: GPF-2-PUL | List Price: \$326 | Member Price: \$242

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## TRANSIT FACILITIES

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

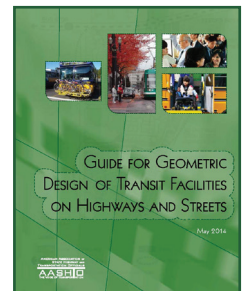
Item Code: TVF-1

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

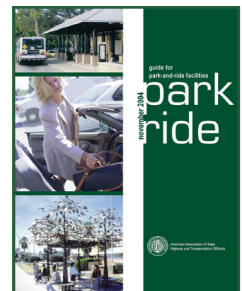


## GUIDE FOR PARK-AND-RIDE FACILITIES, 2ND EDITION

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

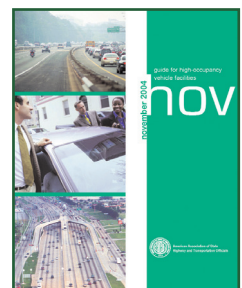


## GUIDE FOR HIGH-OCCUPANCY VEHICLE (HOV) FACILITIES, 3RD EDITION

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 FOR STREETS AND HIGHWAYS, 11TH EDITION

Item Code: MUTCD-11

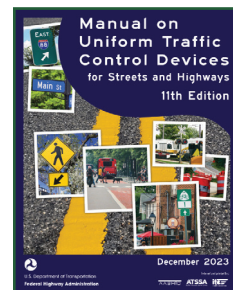
**2024  
RELEASE**

The Manual on Uniform Traffic Control Devices for Streets and Highways (the "MUTCD") defines the standards used by road managers nationwide to install and maintain traffic control devices on all streets, highways, pedestrian and bicycle facilities, and site roadways open to public travel. Developed and published by the Federal Highway Administration (FHWA) in December 2023 as a PDF download publication only, this 11th edition updates and supersedes the previous 10th Edition, published in 2009.

This print version includes all the information contained in FHWA's PDF download version, in its entirety, as well as includes a comprehensive index of key reference topics; exact color-matched graphics; and high-quality paper and a layflat binding, designed to withstand frequent and continued use.

**PAPERBACK** Code: MUTCD-11 | List Price: \$120 | Member Price: \$100

\* 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



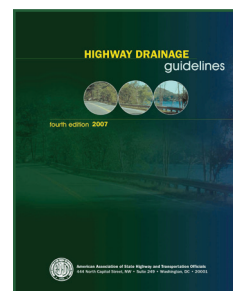
# DRAINAGE

## 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

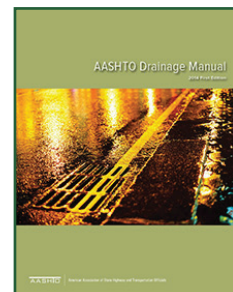


## AASHTO DRAINAGE MANUAL, 1ST EDITION

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. **2014. 1,342 pp.**

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



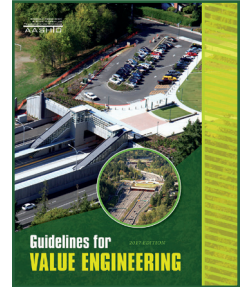
# PROJECT MANAGEMENT

## 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

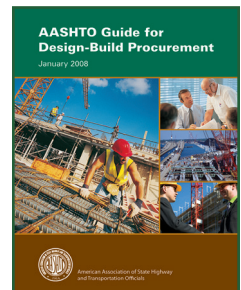


## AASHTO GUIDE FOR DESIGN-BUILD PROCUREMENT, 1ST EDITION

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

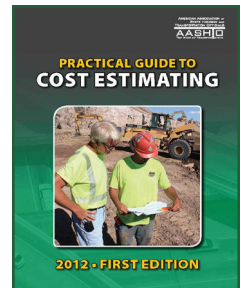
Item Code: EST-1

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

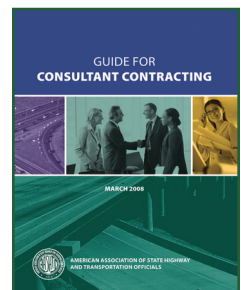


## AASHTO GUIDE FOR CONSULTANT CONTRACTING, 1ST EDITION

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

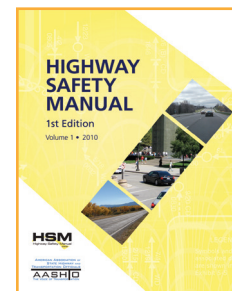
The *Highway Safety Manual* (HSM) was developed to help measurably reduce the frequency and severity of crashes on American roadways by providing tools for considering safety in the project development process. The HSM assists practitioners in selecting countermeasures and prioritizing projects, comparing 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](http://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



## MANUAL FOR ASSESSING SAFETY HARDWARE, 2ND EDITION

Item Code: MASH-2-M

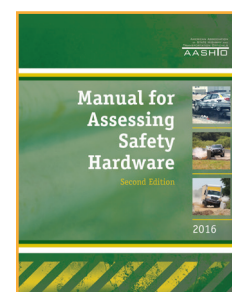
This manual, commonly referred to as "MASH", is a set of performance criteria developed to encourage consistency in the crash testing and evaluation of roadside safety features. It is designed for use by state departments of transportation and other agencies concerned with roadside safety design. The 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



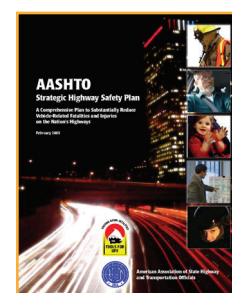
## AASHTO STRATEGIC HIGHWAY SAFETY PLAN—A COMPREHENSIVE PLAN TO SUBSTANTIALLY REDUCE VEHICLE-RELATED FATALITIES AND INJURIES ON THE NATION'S HIGHWAYS, 2ND EDITION

Item Code: SHSP-2

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

**2005. 40 pp.**

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

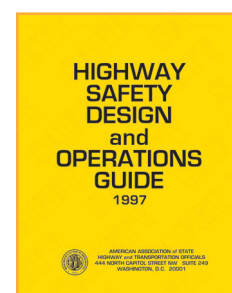


## HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE, 3RD EDITION

Item Code: SR-3

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

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





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