

AASHTO Publications Catalog



DESIGN & TRAFFIC



AASHTO Publications Catalog

Design & Traffic

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

This catalog features AASHTO publications related to the design of highways and streets.

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DESIGN & TRAFFIC

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

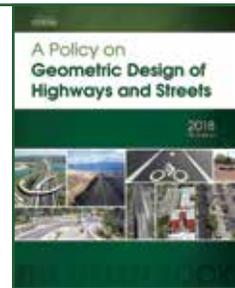
Item Code: GDHS-7

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

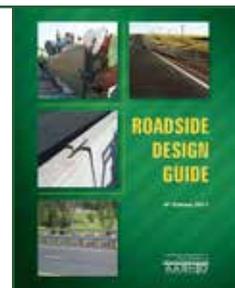
Item Code: RSDG-4

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

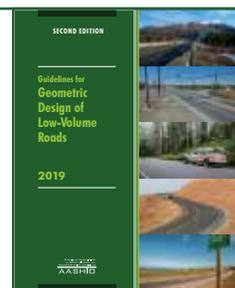
Item Code: VLVL2-2

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: VLVL2-2-UL | List Price: \$135 | Member Price: \$100

PAPERBACK Code: VLVL2-2 | List Price: \$169 | Member Price: \$129

PAPERBACK & PDF COMBO Code: VLVL2-2-PUL | List Price: \$236 | Member Price: \$175

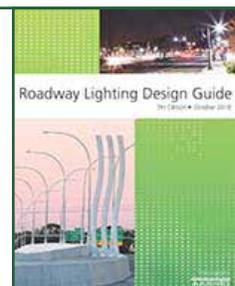


ROADWAY LIGHTING DESIGN GUIDE, 7TH EDITION

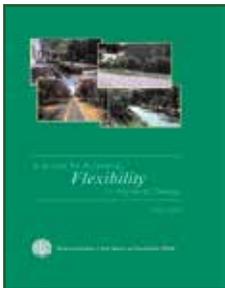
Item Code: GL-7

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



HIGHWAY AND STREET DESIGN (CONT'D)



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

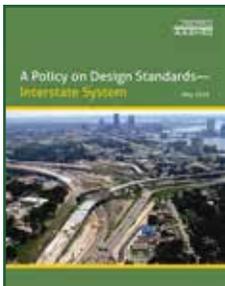
Item Code: FHD-1

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

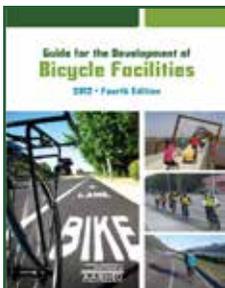


A POLICY ON DESIGN STANDARDS—INTERSTATE SYSTEM, 6TH EDITION

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

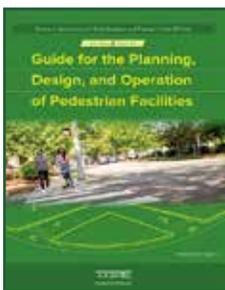
Item Code: GBF-4

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



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

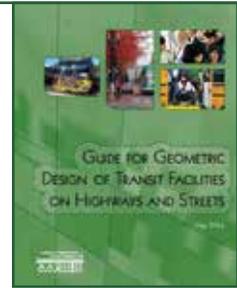
Item Code: TVF-1

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

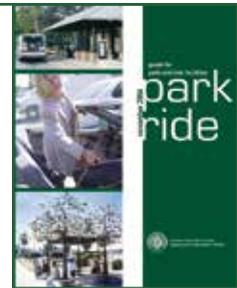


GUIDE FOR PARK-AND-RIDE FACILITIES, 2ND EDITION

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

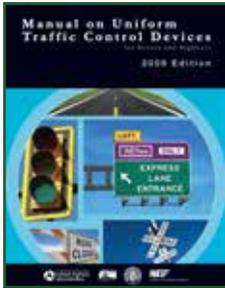


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TRAFFIC CONTROL DEVICES



MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION

Item Code: MUTCD-10

Updates from the previous edition include interim approval process for new traffic control devices; chapter on traffic incident management; section on countdown pedestrian signals; considerations for pedestrians and workers in temporary traffic control zones; provision for in-street pedestrian signs; recommendations for letter height on street name signs; use of yield markings at un-signalized mid-block pedestrian crosswalks; and provision for high visibility clothing for workers. This paperback edition includes a comprehensive copyrighted index, high-quality print and color-matched graphics, a lay-flat binding, and larger format three-hole drilled pages. **2009. 864 pp.**

PAPERBACK Code: MUTCD-10 | List Price: \$75 | Member Price: \$75



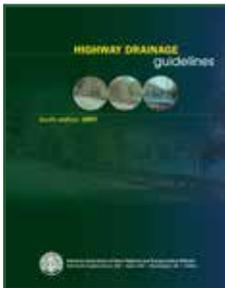
AASHTO GUIDELINES FOR SUPPLEMENTAL GUIDE SIGNING, 5TH EDITION

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, CD-ROM

Item Code: ADM-1-CD

Superseding AASHTO's 2005 *Model Drainage Manual*, the *AASHTO Drainage Manual* provides hydraulics engineers with practical working guidelines. Volume One, Policy, considers examples for drainage design policies, criteria, and standards. Volume Two, Procedures, discusses hydrologic and hydraulic design procedures that are frequently used by highway hydraulics engineers and includes step-by-step procedures and design examples that can be worked by hand or solved with public domain software. This CD-ROM includes a searchable PDF of both volumes, a glossary, and Microsoft Word files of individual chapters that any Federal, State, or local agency can use to produce its own customized drainage policy or procedure manual. **2014.**

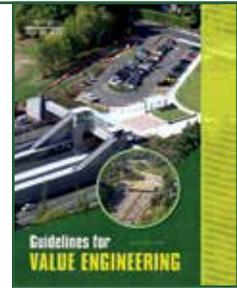
CD-ROM Code: ADM-1-CD | List Price: \$178 | Member Price: \$132

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.**

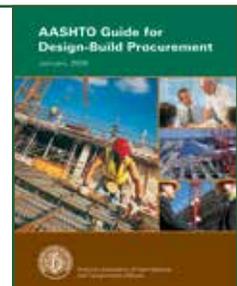


PDF DOWNLOAD Code: VE-4-UL | List Price: \$30 | Member Price: \$22

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

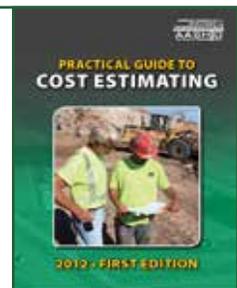
Item Code: EST-1

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

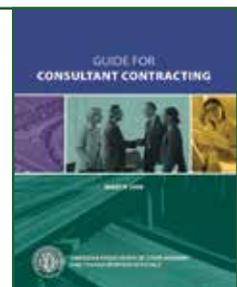


AASHTO GUIDE FOR CONSULTANT CONTRACTING, 1ST EDITION

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.



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