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ASCE 7 Online is a user-friendly web-based application that provides digital access to both Standard ASCE 7-16 and 7-10. Unique features and functionality include:
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- **New:** ASCE 7 Hazard Tool identifies hurricane-prone regions and wind-borne debris regions, as defined in 7-16 Chapter 26 and ASCE 7-10.
- Serviceability wind speeds now returned with site wind speed
- Seismic data expanded to include 14 coefficients, the seismic design category, and both horizontal and vertical response spectra

**Individual User License:**
- List: $60 annual subscription
  - ASCE Member: $45 annual subscription

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For information about all ASCE 7 Products, visit [https://www.asce.org/asce-7](https://www.asce.org/asce-7) or call 1.800.548.2723 or 1.703.295.6300.
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Real-World Engineering Experiences
Edited by Daniel (Pete) Loucks, Ph.D., P.E., Hon.D.WRE and Laurel Saito, Ph.D., P.E.
This collection of essays presents the challenges of providing adequate, reliable, affordable, and clean water supplies to communities around the world.
2019 | 234 pp. | List $60 | ASCE Member $45
Soft Cover: ISBN 9780784415337 | Stock # 41533

Biodiesel Production Technologies, Challenges, and Future Prospects
Edited by R. D. Tyagi; Rao Y. Surampalli, Ph.D., P.E.; Tian C. Zhang, P.E.; Song Yan, Ph.D. and Xiaolei Zhang Ph.D.
Biodiesel Production: Technologies, Challenges, and Future Prospects presents approaches, technologies and source materials for biodiesel production as well as socio-economic and political impacts of biodiesel applications.
2019 | 730 pp. (est.) | List $230 | ASCE Member $172.50
Soft Cover: ISBN 9780784415344 | Stock # 41534

Civil Engineering Technologist Body of Knowledge
Prepared by Civil Engineering Technologist Body of Knowledge Task Committee
Civil Engineering Technologist Body of Knowledge provides a consensus on areas in which a civil engineering technologist (CET) might work, as well as the overall approach of combined foundational and specialty outcomes to provide a workable body of knowledge for CETs.
2019 | 96 pp. | List $29 | ASCE Member $21.75
Soft Cover: ISBN 9780784415382 | Stock # 41538
(Available as a FREE download in ASCE Library, ascelibrary.org)

Compaction Grouting Consensus Guide
Standard ASCE/G-I 53-19
ASCE/G-I 53-19 focuses on the practical and engineering aspects of compaction grouting as a technique of ground improvement.
2019 | 80 pp. | List $89 | ASCE Member $66.75
Soft Cover: ISBN 9780784415030 | Stock # 41503

Computational Fluid Dynamics Applications in Water, Wastewater and Stormwater Treatment
Edited by Xiaofeng Liu, Ph.D., P.E., and Jie Zhang, Ph.D.
This book will review procedures for conducting flow, transport, and reaction simulations using computational fluid dynamics along with specific practical examples of water, wastewater and stormwater treatment applications.
2019 | 224 pp. | List $120 | ASCE Member $90
Soft Cover: ISBN 9780784415313 | Stock # 41531

Failure Case Studies Steel Structures
Edited by Navid Nastar, Ph.D., P.E., S.E., and Rui Liu, Ph.D., P.E.
These case studies supply a summary of the published findings from eight steel structure failure investigations and a valuable collection of references that can be used by civil engineering students and practicing engineers to improve their failure literacy.
2019 | 52 pp. | List $55 | ASCE Member $41.25
Soft Cover: ISBN 9780784415306 | Stock # 41530
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For more information on the availability of ASCE E-books, visit https://ascelibrary.org.

New Titles

**Frost Action in Soils: Fundamentals and Mitigation in a Changing Climate**
*Edited by Sally A. Shoop*
This report presents the challenges of cold regions engineering in a changing climate, as well as the current practices and state-of-the-art tools for addressing them.

2020 | 184 pp. | List $120 | ASCE Member $90
**Soft Cover:** ISBN 9780784415085 | Stock # 41508
**E-book:** ISBN 9780784415089 | Stock # 48150

**Inspection and Maintenance of Stormwater Control Measures**
*Stormwater Best Management Practices Maintenance Task Committee*
*Inspection and Maintenance of Stormwater Control Measures* describes the functions and operations of stormwater control measures, offers troubleshooting suggestions, and provides valuable information on the implementation of inspection and maintenance procedures.

2019 | 86 pp. | List $80 | ASCE Member $60
**Soft Cover:** ISBN 9780784415436 | Stock # 41543
**E-book:** ISBN 9780784482544 | Stock # 48254

**Life-Cycle Design, Assessment, and Maintenance of Structures and Infrastructure Systems**
*Edited by Fabio Biondini and Dan M. Frangopol*
*Life-Cycle Design, Assessment, and Maintenance of Structures and Infrastructure Systems* is a state-of-the-art comprehensive report outlining the current status and research needs in life-cycle of civil structure and infrastructure systems.

2020 | 192 pp. | List $100 | ASCE Member $75
**Soft Cover:** ISBN 9780784415467 | Stock # 41546
**E-book:** ISBN 9780784482636 | Stock # 48263

**Offshore Technology in Civil Engineering: Hall of Fame Papers**
*Edited by J. S. Templeton III, Dr.Eng., P.E., and Alan G Young, P.E.*
*Offshore Technology in Civil Engineering (OTC HOF) 14*
This is the fourteenth volume in a series of publications containing classic papers of the Offshore Technology Conference (OTC), the world’s leading event for the development of offshore resources in the fields of exploration, drilling, production, and environmental protection.

2019 | 100 pp. | List $80 | ASCE Member $60
**Soft Cover:** ISBN 9780784415399 | Stock # 41539

**Prestandard for Performance-Based Wind Design**
*Prestandard for Performance-Based Wind Design presents recommended alternatives to the prescriptive procedures for wind design of buildings contained in the nationally adopted standard Minimum Design Loads and Associated Criteria for Buildings and Other Structures (ASCE 7) and in the International Building Code (IBC).*

FREE in ASCE Library

**Recommended Practice for Fiber-Reinforced Polymer Products for Overhead Utility Line Structures, Second Edition**
*Task Committee on Fiber-Reinforced Polymer Products for Overhead Utility Line Structures* (MOP) 104
The second edition of MOP 104 details best practices for the use of fiber-reinforced polymer (FRP) composite poles and crossarms in resilient conductor support applications.

2019 | 236 pp. | List $140 | ASCE Member $105
**Hard Cover:** ISBN 9780784415443 | Stock # 41544
**E-book:** ISBN 978-0-7844-8227-8 | Stock # 48227
Resilience-Based Performance: Next Generation Guidelines for Buildings and Lifeline Standards

Risk and Resilience Measurement Committee

Infrastructure Resilience Publication IRP 3

Resilience-Based Performance: Next Generation Guidelines for Buildings and Lifeline Standards, IRP 3, focuses on the enhancements that are needed in the design and construction of buildings and lifeline systems to support a community’s social stability, economic vitality, and environmental sustainability.

2019 | 92 pp. | List $80 | ASCE Member $60
Soft Cover: ISBN 9780784415276 | Stock # 41527
E-book: ISBN 9780784482063 | Stock # 48206

Risk-Based Structural Evaluation Methods

Best Practices and Development of Standards

Edited by Michel Ghosn, Graziano Fiorillo, Ming Liu, and Bruce R. Ellingwood

This report provides a comprehensive summary of the findings from a survey of attitudes of researchers, structural engineers and government agencies to risk-informed structural engineering practices and a follow-up workshop.

2020 | 187 pp. | List $100 | ASCE Member $75
Soft Cover: ISBN 9780784415474 | Stock # 41547

Seismic Loads

Guide to the Seismic Load Provisions of ASCE 7-16

Finley A. Charney, Ph.D., P.E., FASCE, F.SEI; Thomas F. Heausler, P.E., S.E., FASCE, F.SEI; and Justin D. Marshall, Ph.D., P.E., M.ASCE

ASCE Press

The authors provide clear, authoritative explanations of the seismic design provisions contained in Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Standard ASCE/SEI 7-16.

2020 | 250 pp. | List $95 | ASCE Member $71.25
Soft Cover: ISBN 9780784415504 | Stock # 41550
E-book: ISBN 9780784482704 | Stock # 48270

Seismic Evaluation and Design of Petrochemical and Other Industrial Facilities

Third Edition

Task Committee on Seismic Evaluation and Design of Petrochemical Facilities

This report provides practical recommendations affecting the safety of new and existing petrochemical and other industrial facilities during and following an earthquake.

2020 | 300 pp.(est.) | List $130 | ASCE Member $97.50
Soft Cover: ISBN 9780784415481 | Stock # 41548

Standard Calculation Methods for Structural Fire Protection

Standard ASCE/SEI/SFPE 29-19

SCE/SEI/SFPE 29-19 provides the most current and proven methods for calculating fire resistance of selected structural members and barrier assemblies made from structural steel, plain concrete, reinforced concrete, timber and wood, concrete masonry, and clay masonry.

2020 | 126 pp. | List $95 | ASCE Member $71.25
Soft Cover: ISBN 9780784415023 | Stock # 41502
E-book: ISBN 9780784481356 | Stock # 48135

Standard Practice for the Design and Operation of Supercooled Fog Dispersal Projects

Standard ANSI/ASCE/EWRI 44-20

This standard describes the process through which supercooled fog dispersal operations should be designed, conducted, and evaluated.

2020 | 66 pp. | List $90 | ASCE Member $67.50
Soft Cover: ISBN 9780784415450 | Stock # 41545
Structural Design for Physical Security
State of the Practice
Task Committee on Structural Design for Physical Security
Manuals and Reports on Engineering Practice (MOP) 142

MOP 142 provides an overview of the typical design considerations encountered in new construction and renovation of facilities for physical security tactics.

2020 | 380 pp. (est.) | List $170 | ASCE Member $127.50
Hard Cover: ISBN 9780784415498 | Stock # 41549
E-book: ISBN 9780784482681 | Stock # 48268

Subsurface Utility Engineering for Municipalities
Prequalification Criteria and Scope of Work Guide
James H. Anspach, PG(r), and C. Paul Scott, P.E.

Subsurface Utility Engineering for Municipalities: Prequalification Criteria and Scope of Work Guide is a resource for understanding subsurface utility engineering (SUE) and bringing up-to-date practices to the application of SUE for public works.

2019 | 98 pp. | List $70 | ASCE Member $52.50
Soft Cover: ISBN 9780784415368 | Stock # 41536
E-book: ISBN 9780784482315 | Stock # 48231

Wind Loads
Guide to the Wind Load Provisions of ASCE 7-16
William L. Coulbourne, P.E. and T. Eric Stafford, P.E.
ASCE Press

The essential guide to the wind load provisions of ASCE 7-16, this book is a helpful guide to the planning, design, and construction of buildings for residential and commercial purposes.

2020 | 180 pp. | List $85 | ASCE Member $63.75
Soft Cover: ISBN 9780784415269 | Stock # 41526
Minimum Design Loads and Associated Criteria for Buildings and Other Structures

Standard ASCE/SEI 7-16

Minimum Design Loads and Associated Criteria for Buildings and Other Structures, ASCE/SEI 7-16, provides the most up-to-date and coordinated loading standard for general structural design. ASCE 7-16 describes the means for determining design loads including dead, live, soil, flood, tsunami, snow, rain, atmospheric ice, earthquake, wind, and fire, as well as how to assess load combinations. The 2016 edition of ASCE 7, which supersedes ASCE/SEI 7-10, coordinates with the most recent material standards, including the ACI, AISC, AISI, AWC, and TMS standards. Standard ASCE/SEI 7 is an integral part of building codes in the United States and is adopted by reference into the International Building Code, the International Existing Building Code, the International Residential Code, and the NFPA 5000 Building Construction and Safety Code. Structural engineers, architects, and those engaged in preparing and administering local building codes will find the structural load requirements essential to their practice.

2017 | 888 pp. | List $240 | ASCE Member $180
Soft Cover: ISBN 9780784414248 | Stock # 41424

ASCE 7 Online

A faster, easier way to work with Standard ASCE 7

ASCE 7 Online provides digital access to both ASCE 7-10 and 7-16 versions of Minimum Design Loads and Associated Criteria for Buildings and Other Structures, but with enhanced features that make it faster and easier to work in the Standard. Exclusive features include:

- Convenient side-by-side display of the Provisions and the Commentary
- Redlining feature to quickly spot changes between editions
- Critical real-time updates of supplements and errata with date stamps
- Annotation and bookmarking tools
- Corporate notes feature enabling secure communications within the text of the Standard (corporate license only)
- Advanced search feature to limit search to specific chapters, sections, or types of content
- Toggling between Customary and SI unit measurements

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Corporate Single Site License: 10 Concurrent Users: $1,200
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ASCE 7 Hazard Tool

One Site | Precise Data | Fast Results

Save time and money with this web-based application that offers a better way to look up key design parameters specified by ASCE 7-10 and ASCE 7-16. Easy-to-use mapping features allow you to quickly retrieve precise hazard data for wind, seismic, flood, snow, rain, ice, and tsunami risk.

Get started at https://asce7hazardtool.online for licensing and pricing information.

Annual Subscription Rates

Individual User License: List $60 | ASCE Member $45
Seismic Loads
Guide to the Seismic Load Provisions of ASCE 7-16
Finley A. Charney, Ph.D., P.E., F.ASCE, F.SEI; Thomas F. Heusler, P.E., S.E., F.ASCE, F.SEI; and Justin D. Marshall, Ph.D., P.E., M.ASCE
ASCE Press
Seismic Loads: Guide to the Seismic Load Provisions of ASCE 7-16 provides clear, authoritative explanations of the seismic design provisions contained in Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Standard ASCE/SEI 7-16. When used with the standard commentary, provided as a separate volume in ASCE 7-16, Seismic Loads assists structural engineers in applying the latest thinking in seismic design of new building structures. Seismic Loads is an essential companion to Standard ASCE/SEI 7-16 for all engineers, architects, and construction professionals who work on buildings in seismically active locations.

2020 | 250 pp. | List $95 | ASCE Member $71.25
Soft Cover: ISBN 9780784415504 | Stock # 41550
E-book: ISBN 9780784482704 | Stock # 48270

Significant Changes to the Minimum Design Load Provisions of ASCE 7-16
ASCE Press
Significant Changes to the Minimum Design Load Provisions of ASCE 7-16 identifies the most noteworthy changes to the design load provisions between the 2010 and 2016 editions of ASCE 7. Four experts with in-depth knowledge of the standard summarize the major changes to the rain, snow, seismic, wind, and other design loads, as well as introduce the new tsunami guidelines. In a user-friendly, appealing format, this volume presents a summary of each change, an explanation of the rationale behind it, and a detailed analysis of its implications, generously illustrated by photographs, diagrams, or other visual aids. This handy volume translates changes to the ASCE 7-16 load provisions into a form highly accessible to structural engineers, architects, contractors, building officials and inspectors, and allied professionals.

2018 | 362 pp. | List $125 | ASCE Member $93.75
Soft Cover: ISBN 9780784414576 | Stock # 41457

Snow Loads
Guide to the Snow Load Provisions of ASCE 7-16
Michael O’Rourke, Ph.D., P.E.
ASCE Press
Michael O’Rourke supplies detailed, authoritative explanations of the snow load provisions contained in Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Standard ASCE/SEI 7-16. With clear, concise language, he illustrates the key concepts for applying the provisions to the design of new and existing structures that could collect falling or drifting snow. Snow Loads includes 35 worked examples of real-life design problems, as well as answers to 20 frequently asked questions, including a new one on snow capture by solid walls. This important new edition is an essential supplement to ASCE/SEI Standard 7 for all engineers, architects, construction professionals, and building officials who work on projects in regions subject to snow.

2017 | 175 pp. | List $75 | ASCE Member $56.25
Soft Cover: ISBN 9780784414569 | Stock # 41456
Wind Loads
Guide to the Wind Load Provisions of ASCE 7-16
William L. Coulbourne, P.E. and T. Eric Stafford, P.E.
ASCE Press

The essential guide to the wind load provisions of ASCE 7-16, this book is a helpful guide to the planning, design, and construction of buildings for residential and commercial purposes. While the 2016 revision of ASCE 7 has retained the previously reorganized wind load provisions, the important changes in the ASCE 7-16 wind load provisions are

• Modified wind speed maps for the country west of the hurricane-prone region;
• A fourth wind speed map for Risk Category IV structures;
• Revised methodology to determine exposure category;
• Addition of a ground elevation factor to the velocity pressure equation;
• New provisions for roof top solar arrays, canopies, and bins, tanks, and silos; and
• Revised pressure coefficients for components and cladding for sloped roofs.

Wind Loads provides users with tools and insight to apply ASCE 7-16 in everyday practice. This revised and updated guide introduces readers to the relevant sections of the standard and provides an extensive overview of the design procedures and the revised wind speed maps. This book is a necessary reference for practicing structural engineers, as it offers the most authoritative and in-depth interpretation of the wind loads section of Standard ASCE/SEI 7-16.
Inland Navigation
Environmental Sustainability
Task Committee on Inland Navigation of the Waterways Committee; Edited by Bruce L. McCartney, P.E.

Inland Navigation: Environmental Sustainability provides the current state of environmental preservation procedures for inland waterways. It presents an overview of ecosystem sustainability procedures currently used. This technical report examines environmental considerations for construction, as well as operation and restoration of inland freshwater waterways in the continental United States, which includes the lower Mississippi and lower Columbia rivers. This report is a valuable reference for those involved with waterway design and operations and will be of use as an educational text for the academic community.

2018 | 180 pp. | List $120 | ASCE Member $90
Soft Cover: ISBN 9780784415092 | Stock # 41509

Offshore Technology in Civil Engineering
Hall of Fame Papers
Edited by J.S. Templeton III, Dr.Eng., P.E., and Alan G Young, P.E.

Offshore Technology in Civil Engineering (OTC HOF) 14

This is the fourteenth volume in a series of publications containing classic papers of the Offshore Technology Conference (OTC), the world’s leading event for the development of offshore resources in the fields of exploration, drilling, production, and environmental protection. Offshore Technology in Civil Engineering: Hall of Fame Papers, Volume 14 includes the five winning papers inducted in 2019 at an award ceremony during the OTC in May 2019. The engineering innovations presented in these papers have proven their value through widespread use, permeating codes, standards, guidelines, and engineering software.

2019 | 100 pp. | List $80 | ASCE Member $60
Soft Cover: ISBN 9780784415399 | Stock # 41539

Proceedings of the 15th Triennial International Conference 2019

The 139 peer-reviewed papers in these volumes were presented at the 15th Triennial International Conference, held in Pittsburgh, Pennsylvania, September 15–18, 2019. Sponsored by PIANC and the Ports and Harbors Committee of the Coasts, Oceans, Ports, and Rivers Institute of ASCE.

Ports 2019
Port Engineering
Edited by Pooja Jain, P.E., P.Eng., S.E.; and William S. Stahlman III, P.E.
2019 | List $154 | ASCE Member $115.50

Ports 2019
Port Planning and Development
Edited by Pooja Jain, P.E., P.Eng., S.E.; and William S. Stahlman III, P.E.
2019 | List $124 | ASCE Member $93
E-book: ISBN 9780784482629 | Stock # 48262

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Cold Regions Engineering 2019
Edited by Jean-Pascal Bilodeau, Ph.D., P.Eng.; Daniel F. Nadeau, Ph.D., P.Eng.; Daniel Fortier, Ph.D.; and David Conciatori, Ph.D.

The 79 peer-reviewed papers in this collection were presented at the 18th International Conference on Cold Regions Engineering and the 8th Canadian Permafrost Conference, held in Quebec City, Canada, August 18–22, 2019. Topics include: properties assessment and monitoring; pavements and embankments; water, snow and ice; materials, structures, and foundations; and permafrost science and engineering. This proceedings will be of interest to both researchers and practitioners involved in cold regions engineering.

2019 | 706 pp. | List $158 | ASCE Member $118.50

Principles of Applied Civil Engineering Design
Producing Drawings, Specifications, and Cost Estimates for Heavy Civil Projects
Ying-Kit Choi, Ph.D., P.E.

ASCE Press

The updated edition of this important book walks engineers through standard practice and basic principles needed to prepare quality design and construction documents for a successful infrastructure project. Drawing on more than 30 years of engineering and design experience, Ying-Kit Choi helps readers understand the interrelationships among contract documents, site characterization, design and construction documents, and construction cost estimates. This second edition reflects the rapid changes in the methods and tools used to produce design drawings, updating the discussions of presentation formats and technical resources. Of particular interest, the 2014 Construction Specifications Institute format is introduced for use in preparing specifications and estimating construction costs. Nine of the chapters encourage readers to test their comprehension with example problems and solutions. Choi assembles an excellent introduction for civil engineering students and young professionals, as well as provides a valuable reference for experienced design engineers, contractors, and project owners.

2017 | 380 pp. | List $130 | ASCE Member $97.50
Hard Cover: ISBN 9780784414736 | Stock # 41473
E-book: ISBN 9780784480557 | Stock # 48055

Schedule Delay Analysis
Standard ANSI/ASCE/CI 67-17

Standard ANSI/ASCE/CI 67-17, Schedule Delay Analysis, presents guiding principles that can be used on construction projects to determine the impact of delays. Critical path method (CPM) schedules can be of evidential value to demonstrate causation and liability and to apportion delays when they occur on a project. CPM schedules will influence the quantification of delay and, ultimately, whether a party was damaged by a delay. This standard provides 35 guidelines that allow for segmentation of responsibility for delays to intermediary milestones and project completion dates. The guidelines enable the calculation of delay damages or liquidated damages by using CPM schedule techniques and preparing a schedule delay analysis. Each guideline is accompanied by commentary that explains the reasoning behind and application of that principle. Standard ASCE 67-17 reflects the best engineering principles associated with schedule delay analysis, as well as the standard of practice in the U.S. construction industry. It is an essential reference for construction engineers, project managers, owners, and contracting agents.

2017 | 33 pp. | List $70 | ASCE Member $52.50
Soft Cover: ISBN 9780784414361 | Stock # 41436
E-book: ISBN 9780784480861 | Stock # 48086

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Transforming Engineering Education
Innovative Computer-Mediated Learning Technologies
Edited by Ivan Mutis, Renate Fruchter, and Carol C. Menassa

The authors bring together 10 contributions on new approaches to research in the use of computer-mediated learning technologies in civil engineering education. The contributions present technology approaches that have made far-reaching improvements in learning outcomes and their alignment in the curriculum. This book is divided into three areas: fundamental computing approaches in design and construction, virtual and augmented reality, and advances in BIM applications. Researchers and educators in all areas of engineering education will find innovative and useful suggestions in this collection.

2018 | 340 pp. | List $130 | ASCE Member $97.50
Soft Cover: ISBN 9780784414866 | Stock # 41486
E-book: ISBN 9780784481141 | Stock # 48114

Proceedings of the ASCE International Conference on Computing in Civil Engineering 2019

This collection contains 230 selected papers from the ASCE International Conference on Computing in Civil Engineering 2019, held in Atlanta, Georgia, June 17–19, 2019. Sponsored by the Computing Division of ASCE.

Computing in Civil Engineering 2019
Data, Sensing, and Analytics
Edited by Yong K. Cho, Ph.D.; Fernanda Leite, Ph.D.; Amir Behzadan, Ph.D.; and Chao Wang, Ph.D.
2019 | 634 pp. | List $154 | ASCE Member $115.50

Computing in Civil Engineering 2019
Visualization, Information Modeling, and Simulation
Edited by Yong K. Cho, Ph.D.; Fernanda Leite, Ph.D.; Amir Behzadan, Ph.D.; and Chao Wang, Ph.D.
2019 | 655 pp. | List $160 | ASCE Member $120

Computing in Civil Engineering 2019
Smart Cities, Sustainability, and Resilience
Edited by Yong K. Cho, Ph.D.; Fernanda Leite, Ph.D.; Amir Behzadan, Ph.D.; and Chao Wang, Ph.D.
2019 | 590 pp. | List $146 | ASCE Member $109.50
E-book: ISBN 9780784482445 | Stock # 48244

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Adventures in Managing Water
Real-World Engineering Experiences
Edited by Daniel (Pete) Loucks, Ph.D., P.E., Hon.D.WRE and Laurel Saito, Ph.D., P.E.

Adventures in Managing Water: Real-World Engineering Experiences is a collection of essays that present the challenges of providing adequate, reliable, affordable, and clean water supplies to communities around the world. These stories, shared by engineers and other water management professionals, express the trials, successes, lessons learned, and moments of enlightenment each professional faced while building institutions and creating water management policies in the United States and abroad. It will be of interest to students, engineers, planners, economists, and social scientists working in water management.

2019 | 234 pp. | List $60 | ASCE Member $45
Soft Cover: ISBN 9780784415337 | Stock # 41533

Biodiesel Production
Technologies, Challenges, and Future Prospects
Edited by R.D. Tyagi; Rao Y. Surampalli, Ph.D., P.E.; Tian C. Zhang, P.E.; Song Yan, Ph.D.; and Xiaolei Zhang Ph.D.

Biodiesel Production: Technologies, Challenges, and Future Prospects presents approaches, technologies and source materials for biodiesel production as well as socio-economic and political impacts of biodiesel applications. This book offers a detailed overview of the benefits, impacts, and production of biodiesel. Researchers, scientists, engineers, students, policy makers, and government officials will find this book a valuable reference of comprehensive information on biodiesel production.

2019 | 730 pp. (est.) | List $230 | ASCE Member $172.50
Soft Cover: ISBN 9780784415344 | Stock # 41534

Climate-Resilient Infrastructure
Adaptive Design and Risk Management

Climate-Resilient Infrastructure: Adaptive Design and Risk Management

MOP 140 provides guidance for and contributes to the developing or enhancing of methods for infrastructure analysis and design in a world in which risk profiles are changing and can be projected with varying degrees of uncertainty requiring a new design philosophy to meet this challenge. This manual will be of interest to engineers, researchers, planners, and other stakeholders charged with adaptive design decisions to achieve infrastructure resilience targets while minimizing life-cycle costs in a changing climate.

2018 | 310 pp. | List $130 | ASCE Member $97.50
Hard Cover: ISBN 9780784415191 | Stock # 41519

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Computational Fluid Dynamics
Applications in Water, Wastewater and Stormwater Treatment
Edited by Xiaofeng Liu, Ph.D., P.E., and Jie Zhang, Ph.D.

The authors provide a valuable introduction and overview of computational fluid dynamics and how it can be used in the water and wastewater industry. This book will review procedures for conducting flow, transport, and reaction simulations using computational fluid dynamics along with specific practical examples of water, wastewater and stormwater treatment applications. Computational Fluid Dynamics: Applications in Water, Wastewater and Stormwater Treatment will be a valuable resource to those in the water and wastewater industry, and especially water engineers and designers.

2019 | 224 pp. | List $120 | ASCE Member $90
Soft Cover: ISBN 9780784415313 | Stock # 41531

Inspection and Maintenance of Stormwater Control Measures
Stormwater Best Management Practices Maintenance Task Committee

Inspection and Maintenance of Stormwater Control Measures describes the functions and operations of stormwater control measures, offers trouble-shooting suggestions, and provides valuable information on the implementation of inspection and maintenance procedures. Engineers, landscape architects, land planners, stormwater professionals, asset managers, maintenance personnel, and government officials will find this guidance document a valuable resource in inspection and maintenance planning, as well as in the field.

2019 | 86 pp. | List $80 | ASCE Member $60
Soft Cover: ISBN 9780784415436 | Stock # 41543

Monitoring Dam Performance
Instrumentation and Measurements
Task Committee to Revise Guidelines for Dam Instrumentation;
Edited by Kim de Rubertis, P.E., D.GE

Manuals and Reports on Engineering Practice (MOP) 135

Performance monitoring as part of a comprehensive dam safety program is a powerful tool for identifying and managing the risk of failure associated with a dam. Monitoring Dam Performance: Instrumentation and Measurements presents the fundamentals and current state of practice of instrumented measurements for monitoring dam performance. MOP 135 delves into embankment, concrete, and other types of dams. It also examines their possible vulnerabilities, as well as explores how their potential modes of failure lead to asking performance questions that instrumented measurements can help monitor. MOP 135 is a valuable resource for members of the global dam community, including dam owners, engineers, and regulators.

2018 | 440 pp. | List $180 | ASCE Member $135
Hard Cover: ISBN 9780784414828 | Stock # 41482
**Radar Rainfall Data Estimation and Use**  
Standard Practice on Radar Rainfall Estimation Task Committee; Edited by Chandra S. Pathak, Ph.D., P.E., D.WRE, and Ramesh S. V. Teegavarapu, P.E.  
*Manuals and Reports on Engineering Practice (MOP) 139*

*Radar Rainfall Data Estimation and Use*, MOP 139, provides a detailed look at the basic philosophy and principles for estimating radar rainfall data and analyzing data. Radar-derived rainfall estimation is one of the most significant recent advances in hydrologic engineering and practice. Manual of Practice 139 provides a framework for researchers and practicing engineers working in hydrologic engineering to develop radar rainfall data sets and analyze them according to their varied goals and resources. This manual will be a valuable resource for government agencies, engineering firms, and practicing engineers working in the hydrologic engineering field.

2018 | 136 pp. | List $110 | ASCE Member $82.50  
Soft Cover: ISBN 9780784415115 | Stock # 41511  

**Regulated Riparian Model Water Code**  
*Standard ASCE/EWRI 40-18*

ASCE/EWRI 40-18 provides a complete, comprehensive, and well-integrated statutory scheme for creating or refining a regulated riparian system of water law. A regulated riparian system of water law uses a requirement of administrative permits for larger water uses, issued based upon the well-established principles of riparian rights, to balance and coordinate those uses in times where demand is approaching or outstripping the available water. This Standard addresses the allocation of water to particular uses and the coordination of water allocation processes with water quality regulatory processes. Standard ASCE/EWRI 40-18 provides engineers, lawyers, and government officials guidance on the allocation of water rights among competing interests and the resolution of quantitative conflicts over water.

2018 | 122 pp. | List $120 | ASCE Member $90  
Soft Cover: ISBN 9780784414682 | Stock # 41468  

**Standard Guidelines for In-Process Oxygen Transfer Testing**  
*Standard ASCE/EWRI 18-18*

*Standard Guidelines for In-Process Oxygen Transfer Testing* provides proven techniques for use by engineers, owners, and manufacturers for measuring oxygen transfer and evaluating the performance of aeration devices under process conditions. Standard ASCE/EWRI 18-18, which was first developed by ASCE in 1996, provides updated information on nonsteady-state, off-gas, and inert gas tracer methods and a brief comparison among methods. In-process testing does provide the engineer with useful information that can be used in future design. It provides the owner with data that can be used for operation and maintenance of the aeration equipment and provides manufacturers with a useful research and development tool for equipment development and design.

2018 | 64 pp. | List $90 | ASCE Member $67.50  
Soft Cover: ISBN 9780784414958 | Stock # 41495  
Standard Practice for the Design and Operation of Supercooled Fog Dispersal Projects

Standard ANSI/ASCE/EWRI 44-20

ANSI/ASCE/EWRI 44-20 describes the process through which supercooled fog dispersal operations should be designed, conducted, and evaluated. A review of supercooled fog dispersal technology is followed by a discussion of fog characteristics. The design of these projects encompasses such topics as project scope, delivery methods, seeding agent selection, targeting and delivery considerations, and seeding suspension criteria. Standard 44-20 is essential to hydrologists, hydrometeorologists, environmental and water resources engineers, airport and mining operations managers, water managers with governmental agencies, surface transportation managers, and others who deal with the limitations and obstacles posed by supercooled fog.

2020 | 66 pp. | List $90 | ASCE Member $67.50
Soft Cover: ISBN 9780784415450 | Stock # 41545

Statistical Analysis of Hydrologic Variables

Methods and Applications

Edited by Ramesh S.V. Teegavarapu, Ph.D., P.E.; Jose D. Salas, Ph.D., and Jery R. Stedinger, Ph.D.

Statistical Analysis of Hydrologic Variables: Methods and Applications provides a compilation of state-of-the-art statistical methods for analyzing and describing critical variables that are part of the hydrological cycle. Analyzed data provide valuable insights into the dynamics of hydrological processes that represent the hydrological cycle. This valuable resource will assist practicing hydrologists, water resource specialists, researchers, and individuals interested in applications of probabilistic methods in hydrology and water resources.

2019 | 556 pp. | List $195 | ASCE Member $146.25
Hard Cover: ISBN 9780784415177 | Stock # 41517
E-book: ISBN 9780784481875 | Stock # 48187

Cost of Maintaining Green Infrastructure

Edited by Jane Clary and Holly Piza, P.E.

Cost of Maintaining Green Infrastructure reports findings from a survey and literature review to capture and quantify the expenses associated with operating and maintaining sustainable stormwater-management technologies. Green infrastructure (GI) practices use processes found in the natural environment to manage stormwater with the end goal of reducing stormwater runoff volumes and corresponding pollutant loading from urban surfaces. To develop this report, the authors contacted 30 state and local agencies to gather information on GI program structure, types and frequency of maintenance activities, maintenance program costs, data tracking approach, and budgeting. This book is a vital resource for environmental engineers and managers, urban planners, and government officials working with states and communities interested in planning and developing green stormwater infrastructure to manage urban runoff.

2017 | 101 pp. | List $60 | ASCE Member $45
Soft Cover: ISBN 9780784414897 | Stock # 41489
Proceedings of World Environmental and Water Resources Congress 2019

The 196 peer-reviewed papers in this collection were presented at the World Environmental and Water Resources Congress 2019, held in Pittsburgh, Pennsylvania, May 19–23, 2019. Sponsored by the Environmental and Water Resources Institute of ASCE.

World Environmental and Water Resources Congress 2019
Emerging and Innovative Technologies and International Perspectives
Edited by Gregory F. Scott, P.E.; and William Hamilton, Ph.D., P.E.
2019 | 203 pp. | List $80 | ASCE Member $60

World Environmental and Water Resources Congress 2019
EWRI History and Heritage Symposium
Edited by Gregory F. Scott, P.E.; and William Hamilton, Ph.D., P.E.
2019 | 119 pp. | List $80 | ASCE Member $60

World Environmental and Water Resources Congress 2019
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Edited by Gregory F. Scott, P.E.; and William Hamilton, Ph.D., P.E.
2019 | 489 pp. | List $94 | ASCE Member $70.50

World Environmental and Water Resources Congress 2019
Hydraulics, Waterways, and Water Distribution Systems Analysis
Edited by Gregory F. Scott, P.E.; and William Hamilton, Ph.D., P.E.
2019 | 597 pp. | List $110 | ASCE Member $82.50

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Standard ANSI/ASCE/EWEI 65-17
2017 | 35 pp. | List $70 | ASCE Member $52.50
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Carbon Capture and Storage
Physical, Chemical, and Biological Methods
2015 | 532 pp. | List $168 | ASCE Member $126
Soft Cover: ISBN 9780784413678 | Stock # 41367

Cost of Maintaining Green Infrastructure
Edited by Jane Clary and Holly Piza, P.E.
2017 | 95 pp. | List $60 | ASCE Member $45
Soft Cover: ISBN 9780784414899 | Stock # 41489
E-book: ISBN 9780784480962 | Stock # 48096

Curve Number Hydrology
State of the Practice
Edited by Richard H. Hawkins, Timothy J. Ward, Donald E. Woodward, and Joseph A. Van Mullem
2009 | 116 pp. | List $57.75 | ASCE Member $45
Soft Cover: ISBN 9780784410042 | Stock # 41004

Design of Water Resource Recovery Facilities
Water Environment Federation (WEF) and American Society of Civil Engineers (ASCE)
Manuals and Reports on Engineering Practice (MOP) ASCE MOP 76; WEF MOP 8
2018 | 2416 pp. | List $325 | ASCE Member $243.75
Soft Cover: ISBN 9780784414224 | Stock # 41422

Evaporation, Evapotranspiration, and Irrigation Water Requirements
Task Committee on Revision of Manual 70; Edited by Marvin E. Jensen, Ph.D., NAE, and Richard G. Allen, Ph.D., P.E.
Manuals and Reports on Engineering Practice (MOP) 70
2016 | 528 pp. | List $141.75 | ASCE Member $114.75
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Field Guide to Environmental Engineering for Development Workers
Water, Sanitation, and Indoor Air
James R. Mihelcic, Ph.D.; Lauren M. Fry; Elizabeth A. Myre; Linda D. Phillips, P.E.; and Brian Barkdoll, Ph.D., P.E.
ASCE Press
In this complete handbook for international engineering service projects, James Mihelcic and his coauthors provide the tools necessary to implement the right technology in developing regions around the world.
2009 | 564 pp. | List $126 | ASCE Member $94.50
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Evaporation, Evapotranspiration, and Irrigation Water Requirements
Task Committee on Revision of Manual 70; Edited by Marvin E. Jensen, Ph.D., NAE, and Richard G. Allen, Ph.D., P.E.
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Forward Osmosis
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Edited by Hui Hao Ngo, Wenshan Guo, Rao Y. Surampalli, and Tian C. Zhang
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Manuals and Reports on Engineering Practice (MOP) 81
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Classroom Demonstrations for Water Concepts
Edited by Amy B. Chan Hilton and Roseanna M. Neupauer
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Handbook of Green Technologies for Sustainable Environment and Water Resources
Edited by Jane Clary and Holly Piza, P.E.
2017 | 95 pp. | List $60 | ASCE Member $45
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Handbook of Green Technologies for Sustainable Environment and Water Resources
Edited by Jane Clary and Holly Piza, P.E.
2017 | 95 pp. | List $60 | ASCE Member $45
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International Low Impact Development Conference 2018
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Edited by Jon Hathaway, Ph.D., P.E.
2018 | 244 pp. | List $80 | ASCE Member $60
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Nanomaterials in the Environment
Edited by Satinder Kaur Brar, Tian C. Zhang, Mauusam Verma, Rao Y. Surampalli, and Rajeshwar D. Tyagi
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Permeable Pavements
Permeable Pavements Task Committee; Edited by Bethany Eisenberg, LEED AP; Kelly Collins Lindow, P.E.; and David R. Smith
2015 | 262 pp. | List $60 | ASCE Member $45
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Public Safety Guidance for Urban Stormwater Facilities
Task Committee on Public Safety Considerations for Urban Stormwater Management Facilities
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Remediation Technologies for Soils and Groundwater
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Risk and Reliability Analysis
A Handbook for Civil and Environmental Engineers
Vijay P. Singh, Ph.D., P.E.; Sharad K. Jain, Ph.D.; and Aditya Tyagi, Ph.D., P.E.
ASCE Press
2007 | 796 pp. | List $176 | ASCE Member $132
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Sedimentation Engineering
Classic Edition
Edited by Vito A. Vanoni
Manuals and Reports on Engineering Practice (MOP) 54
1975 | 424 pp. | List $121 | ASCE Member $90.75
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Sedimentation Engineering (Manual 110)
Processes, Measurements, Modeling, and Practice
Edited by Marcelo Garcia, Ph.D., P.E.
Manuals and Reports on Engineering Practice (MOP) 110
2008 | 1132 pp. | List $252 | ASCE Member $189
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Standard Guidelines for the Design, Installation, and Operation and Maintenance of Stormwater Impoundments
Standard ANSI/ASCE/EWRI 62-16, 63-16, 64-16
2017 | 112 pp. | List $90 | ASCE Member $67.50
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Sustainability and Energy Management for Water Resource Recovery Facilities
Water Environment Federation and the American Society of Civil Engineers
Manuals and Reports on Engineering Practice (MOP) ASCE MOP 137/WEF MOP 38
2018 | 74 pp. | List $55 | ASCE Member $41.25
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Sustainable Solid Waste Management
Edited by Jonathan W.C. Wong, Rao Y. Surampalli, Tian C. Zhang, Rajeshwar D. Tyagi, and Ammayiappan Selvam
2016 | 746 pp. | List $178 | ASCE Member $133.50
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Total Maximum Daily Load Analysis and Modeling
Assessment of the Practice
TMDL Analysis and Modeling Task Committee
2017 | 185 pp. | List $80 | ASCE Member $60
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Treatment System Hydraulics
John Bergendahl, Ph.D., P.E.
ASCE Press
2008 | 282 pp. | List $110 | ASCE Member $82.50
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Urban Street Stormwater Guide
National Association of City Transportation Officials
2017 | 220 pp. | List $40 | ASCE Member $40
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Water Engineering with the Spreadsheet
A Workbook for Water Resources Calculations Using Excel
Ashok Pandit, Ph.D., P.E.
ASCE Press
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Journal of Hydraulic Engineering
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*Standard ASCE/G-I 53-19*

ASCE/G-I 53-19 focuses on the practical and engineering aspects of compaction grouting as a technique of ground improvement. Sections on monitoring and verification have been expanded with new technology driven content covering both sensitive and routine structures. The material describes automated monitoring of grout injection and ground and structure movements; additions to the finite analysis and soil mechanical verifications; and data processing and field practices to implement the technology. ASCE/G-I 53-19 promotes good practice in compaction grouting and is essential reading for anyone involved in specifying, designing, or undertaking compaction grouting.

2019 | 80 pp. | List $89 | ASCE Member $66.75
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Frost Action in Soils

*Fundamentals and Mitigation in a Changing Climate*

Edited by Sally A. Shoop

Frost Action in Soils: Fundamentals and Mitigation in a Changing Climate presents the challenges of cold regions engineering in a changing climate, as well as the current practices and state-of-the-art tools for addressing them. This manuscript explores frost action in soils from different perspectives, as presented in three parts. This book is a valuable resource for engineers, scientists, and government agencies involved in cold regions engineering and the mitigation of frost action on pavements and other structures.

2020 | 184 pp. | List $120 | ASCE Member $90
Soft Cover: ISBN 9780784415085 | Stock # 41508

So Your Home Is Built on Expansive Soils

*A Discussion of How Expansive Soils Affect Buildings*

Shallow Foundations Committee; Edited by Warren K. Wray, Ph.D., P.E., D.GE.; Marshall B. Addison, Ph.D., P.E.; and Kenneth M. Struzyk, P.E.

Written for the layperson in clear, easy-to-understand terms, this updated edition will assist homeowners in understanding why some soils and conditions lead to problematic shrinking and swelling. Both the nature of the soil behavior and how buildings respond are addressed. This comprehensively updated report discusses the difference between cosmetic damage and structural damage resulting from soil shrinkage or heave movement and provides information on both prevention and mitigation of damage. This book will be of interest not only to homeowners but also construction industry professionals and engineering practitioners.

2019 | 102 pp. | List $39 | ASCE Member $29.25
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The 402 peer-reviewed papers in this collection were presented at the Eighth International Conference on Case Histories in Geotechnical Engineering, held in Philadelphia, Pennsylvania, March 24–27, 2019. Sponsored by the Geo-Institute of ASCE.

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Embankments, Dams, and Slopes
Edited by Christopher L. Meehan, Ph.D., P.E.; Sanjeev Kumar, Ph.D., P.E.; Miguel A. Pando, Ph.D., P.Eng.; and Joseph T. Coe, Ph.D.
Geotechnical Special Publications (GSP) 305
2019 | 340 pp. | List $80 | ASCE Member $60

Geo-Congress 2019
Earth Retaining Structures and Geosynthetics
Edited by Christopher L. Meehan, Ph.D., P.E.; Sanjeev Kumar, Ph.D., P.E.; Miguel A. Pando, Ph.D., P.Eng.; and Joseph T. Coe, Ph.D.
Geotechnical Special Publications (GSP) 306
2019 | 399 pp. | List $80 | ASCE Member $60

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Foundations
Edited by Christopher L. Meehan, Ph.D., P.E.; Sanjeev Kumar, Ph.D., P.E.; Miguel A. Pando, Ph.D., P.Eng.; and Joseph T. Coe, Ph.D.
Geotechnical Special Publications (GSP) 307
2019 | 538 pp. | List $94 | ASCE Member $70.50

Geo-Congress 2019
Earthquake Engineering and Soil Dynamics
Edited by Christopher L. Meehan, Ph.D., P.E.; Sanjeev Kumar, Ph.D., P.E.; Miguel A. Pando, Ph.D., P.Eng.; and Joseph T. Coe, Ph.D.
Geotechnical Special Publications (GSP) 308
2019 | 516 pp. | List $80 | ASCE Member $60

Geo-Congress 2019
Soil Improvement
Edited by Christopher L. Meehan, Ph.D., P.E.; Sanjeev Kumar, Ph.D., P.E.; Miguel A. Pando, Ph.D., P.Eng.; and Joseph T. Coe, Ph.D.
Geotechnical Special Publications (GSP) 309
2019 | 389 pp. | List $80 | ASCE Member $60

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CORS and OPUS for Engineers
Tools for Surveying and Mapping Applications
Edited by Tomás Soler, Ph.D.
2011 | 192 pp. | List $95 | ASCE Member $71.25
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Grounded!
Amazing Classroom Demonstrations in Soil Mechanics
David J. Elton, Ph.D., P.E.
ASCE Press

Slope Stability Analysis by the Limit Equilibrium Method
Fundamentals and Methods
Yang H. Huang, Sc.D., P.E.
ASCE Press
2014 | 376 pp. | List $82 | ASCE Member $61.50
Soft Cover: ISBN 9780784412886 | Stock # 41288

Frozen in Time
Permafrost and Engineering Problems
Siemon W. Muller; Edited by Hugh French and Frederick Nelson
Technical Council on Cold Regions Engineering Monographs TCCRE
2008 | 320 pp. | List $90 | ASCE Member $67.50
Soft Cover: ISBN 9780784409893 | Stock # 40989

Practical Guide to Grouting of Underground Structures
Raymond W. Henn
1996 | 200 pp. | List $72 | ASCE Member $54
Soft Cover: ISBN 9780784411322 | Stock # 41132

Sinkholes and the Engineering and Environmental Impacts of Karst (2008)
Edited by Lynn B. Yuhr, M.E., Calvin Alexander, Jr., and Barry F. Beck
Geotechnical Special Publications (GSP) 183
2008 | 782 pp. | List $263 | ASCE Member $197.25
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Soils Magic
David J. Elton
Geotechnical Special Publications (GSP) 114
2001 | 70 pp. | List $47 | ASCE Member $35.25

Ultrafine Cement in Pressure Grouting
Raymond W. Henn, Ph.D., P.E., and Nathan C. Soule, P.E., P.G.
ASCE Press
2010 | 92 pp. | List $72 | ASCE Member $54
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Waste Containment Facilities
David E. Daniel, Ph.D., P.E., and Robert M. Koenig, Ph.D., P.E.
ASCE Press
2007 | 362 pp. | List $121 | ASCE Member $90.75
Hard Cover: ISBN 9780784408599 | Stock # 40859

Water Balance Covers for Waste Containment
Principles and Practice
William H. Albright, Ph.D.; Craig H. Benson, Ph.D., P.E., D.GE., and W. Joseph Waugh, Ph.D.
ASCE Press
2010 | 158 pp. | List $76 | ASCE Member $57
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Related Journals

Journal of Cold Regions Engineering
Editor: Jon E. Zufelt, Ph.D., P.E., D.WRE, F.ASCE, HDR Inc.
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FREQUENCY: Quarterly • CODEN: JCRGEI
2020 Volume 34 • YEAR ESTABLISHED: 1995
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International Journal of Geomechanics
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ISSN: 1532-3641 • E-ISSN: 1943-5622
FREQUENCY: Monthly • CODEN: IJGNAI
2020 Volume 20 • YEAR ESTABLISHED: 2001
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ASCE Press
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Kenneth Wright, P.E., L.S., and Alfredo Valencia Zegarra, Ph.D.
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Resilience Engineering for Urban Tunnels
Edited by Michael Beer, Dr.-Ing.; Hongwei Huang, Ph.D.; Bilal M. Ayyub, Ph.D., P.E.; Dongming Zhang, Ph.D.; and Brian M. Phillips, Ph.D.

Infrastructure Resilience Publication IRP 2

Resilience Engineering for Urban Tunnels contains selected papers presented at the 2016 International Workshop on Resilience of Urban Tunnels, held in Reston, Virginia, September 1, 2016. Topics in this, the second Infrastructure Resilience Publication (IRP), include smart sensing, uncertainty modeling in construction, integrated robust design through modularity and adaptability, modeling with a component scale and a systems scale perspective, resilience-informed decision making, and multisector interdependencies. IRP 2 provides state-of-the-art information to researchers, practitioners, and students interested in resilience of urban tunnels and infrastructure.

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Modeling, Simulation, and Mitigation of Windstorm Impact on Critical Infrastructure
Edited by Aly Mousaad Aly, Ph.D., and Elena Dragomirescu, Ph.D.

Trends in Engineering Mechanics Special Publications TEMSP 3

The selected papers in this proceedings were presented at the EMI 2016 conference held at Vanderbilt University, Nashville, Tennessee, May 22-25, 2016. It addresses the challenges of understanding and mitigating windstorm impact on high-rise buildings, long-span bridges, power transmission lines, and other critical infrastructure. Trends in Engineering Mechanics Special Publication 3 (TEMSP 3) provides up-to-date content in wind engineering research for engineers and scientists working to develop a more resilient and sustainable built environment.

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AEI 2019
Integrated Building Solutions—The National Agenda

*Edited by Moses D. F. Ling, P.E.; Ryan L. Solnosky, Ph.D., P.E.; and Robert M. Leicht, Ph.D.*

This collection contains 38 peer-reviewed papers presented at the Architectural Engineering Conference 2019, held in Tysons, Virginia, April 3–6, 2019. Topics include: building enclosures; BIM and other topics in education; performance assessment and building rehabilitation; sustainability; and building security. This proceedings will be of interest to designers, constructors, developers, planners, owners, and operators.

2019 | 341 pp. | List $90 | ASCE Member $67.50

**E-book:** ISBN 9780784482261 | Stock # 48226
Climate-Resilient Infrastructure
Adaptive Design and Risk Management
Committee on Adaptation to a Changing Climate;
Edited by Bilal M. Ayyub, Ph.D., P.E.

Manuals and Reports on Engineering Practice (MOP) 140

MOP 140 provides guidance for and contributes to the developing or enhancing of methods for infrastructure analysis and design in a world in which risk profiles are changing and can be projected with varying degrees of uncertainty requiring a new design philosophy to meet this challenge. This manual will be of interest to engineers, researchers, planners, and other stakeholders charged with adaptive design decisions to achieve infrastructure resilience targets while minimizing life-cycle costs in a changing climate.

2018 | 310 pp. | List $130 | ASCE Member $97.50
Hard Cover: ISBN 9780784415191 | Stock # 41519

Failure Case Studies
Steel Structures
Edited by Navid Nastar, Ph.D., P.E., S.E., and Rui Liu, Ph.D., P.E.

Failure Case Studies: Steel Structures, provides case studies of failures observed in steel structures between 1970 and 2013. This book supplies a summary of the published findings from eight steel structure failure investigations and a valuable collection of references that can be used by civil engineering students and practicing engineers to improve their failure literacy. Engineering professors and students can use these case studies as the basis for class discussions, a starting point for further research, and a reminder that learning from past failures can avoid similar failures in the future and lead to improved engineering practices. Practicing engineers can use the book as a continuing education resource to improve their practice and to avoid similar failures.

2019 | 52 pp. | List $55 | ASCE Member $41.25
Soft Cover: ISBN 9780784415306 | Stock # 41530

Life-Cycle Design, Assessment, and Maintenance of Structures and Infrastructure Systems
Edited by Fabio Biondini and Dan M. Frangopol

Life-Cycle Design, Assessment, and Maintenance of Structures and Infrastructure Systems is a state-of-the-art comprehensive report outlining the current status and research needs in life-cycle of civil structure and infrastructure systems. The book examines: physical, chemical, and mechanical processes involved in the degradation mechanisms of concrete and steel structures located in severe environments; methods and strategies for life-cycle design and assessment of deteriorating structural systems under uncertainty; life-cycle management concepts for structures and infrastructure networks under uncertainty and the application of such concepts in management process; and principles and implications associated with the scheduling and application of maintenance policies for deteriorating structures and infrastructure networks. This book serves as a valuable resource to engineers, managers, and government agencies concerned with life-cycle design and maintenance of civil structures and infrastructure systems.

2020 | 192 pp. | List $100 | ASCE Member $75
Soft Cover: ISBN 9780784415467 | Stock # 41546
Prestandard for Performance-Based Wind Design

Prestandard for Performance-Based Wind Design presents recommended alternatives to the prescriptive procedures for wind design of buildings contained in the nationally adopted standard Minimum Design Loads and Associated Criteria for Buildings and Other Structures (ASCE 7) and in the International Building Code (IBC). Developed as a response to increasing interest in performance-based design (PBD), this prestandard aids in resolving conflicts in performance objectives that exist when using prescriptive procedures for the wind design and performance-based procedures for seismic design of individual buildings. This document will be of benefit to structural engineers, architects, building component and cladding specifiers/designers, and building officials engaged in the wind design and review of buildings. The prestandard also benefits building owners and developers, as well as the general public.

2019 | 127 pp. | FREE in ASCE Library
E-book: ISBN 9780784482186 | Stock # 48218

Recommended Practice for Fiber-Reinforced Polymer Products for Overhead Utility Line Structures, Second Edition

Task Committee on Fiber-Reinforced Polymer Products for Overhead Utility Line Structures

Manuals and Reports on Engineering Practice (MOP) 104

The second edition of MOP 104 details best practices for the use of fiber-reinforced polymer (FRP) composite poles and crossarms in resilient conductor support applications. This new edition updates and expands on nearly every aspect of FRP pole and crossarm testing, design considerations, installation, and asset management, providing the line designer with another tool in the line design tool box in addition to the traditional materials of wood, steel, and concrete. This manual of practice will be valuable to overhead line asset owners and engineers involved in utility, electrical, and structural engineering.

2019 | 236 pp. | List $140 | ASCE Member $105
Hard Cover: ISBN 9780784415443 | Stock # 41544

Risk-Based Structural Evaluation Methods
Best Practices and Development of Standards

Edited by Michel Ghosn, Graziano Fiorillo, Ming Liu, and Bruce R. Ellingwood

Risk-Based Structural Evaluation Methods: Best Practices and Development of Standards provides a comprehensive summary of the findings from a survey of attitudes of researchers, structural engineers and government agencies to risk-informed structural engineering practices and a follow-up workshop. The editors examine the progress made on the application of Risk-Based Structural Evaluation Methods (RBsEM) and provide recommendations to help enhance their implementation in engineering practice. This report will be a valuable resource for engineers, owners, regulators, and policymakers working towards the implementation of RBsEM as the basis for managing our structure and infrastructure systems.

2020 | 187 pp. | List $100 | ASCE Member $75
Soft Cover: ISBN 9780784415474 | Stock # 41547
Seismic Evaluation and Design of Petrochemical and Other Industrial Facilities

Third Edition

Task Committee on Seismic Evaluation and Design of Petrochemical Facilities

Seismic Evaluation and Design of Petrochemical and Other Industrial Facilities, Third Edition, provides practical recommendations affecting the safety of new and existing petrochemical and other industrial facilities during and following an earthquake. In the area of new design, this book emphasizes the interpretation of the intent of building codes and gives practical guidance on design details and considerations, which are not included in building codes. Based on Standard ASCE/SEI 7-16 and the 2018 IBC, this updated edition will be a valuable resource for structural design engineers, local building authorities, and operating company personnel responsible for establishing seismic design and construction procedures at petrochemical and other large industrial facilities.

2020 | 300 pp. (est.) | List $130 | ASCE Member $97.50
Soft Cover: ISBN 9780784415481 | Stock # 41548

Seismic Loads

Guide to the Seismic Load Provisions of ASCE 7-16

Finley A. Charney, Ph.D., P.E., F.ASCE, F.SEI; Thomas F. Heausler, P.E., S.E., F.ASCE, F.SEI; and Justin D. Marshall, Ph.D., P.E., M.ASCE

ASCE Press

Seismic Loads: Guide to the Seismic Load Provisions of ASCE 7-16 provides clear, authoritative explanations of the seismic design provisions contained in Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Standard ASCE/SEI 7-16. When used with the standard commentary, provided as a separate volume in ASCE 7-16, Seismic Loads assists structural engineers in applying the latest thinking in seismic design of new building structures. Seismic Loads is an essential companion to Standard ASCE/SEI 7-16 for all engineers, architects, and construction professionals who work on buildings in seismically active locations.

2020 | 250 pp. | List $95 | ASCE Member $71.25
Soft Cover: ISBN 9780784415504 | Stock # 41550
E-book: ISBN 9780784482704 | Stock # 48270

Standard Calculation Methods for Structural Fire Protection

Standard ASCE/SEI/SFPE 29-19

ASCE/SEI/SFPE 29-19 provides the most current and proven methods for calculating fire resistance of selected structural members and barrier assemblies made from structural steel, plain concrete, reinforced concrete, timber and wood, concrete masonry, and clay masonry. An update of the previous standard published in 2005, ASCE/SEI/SFPE 29-19 is a joint effort between ASCE’s Structural Engineering Institute and the Society of Fire Protection Engineers (SFPE). This standard provides architects, engineers, building officials, and others with the methods of calculating fire resistance equivalent to the ASTM E119 standard fire test. The most significant changes in ASCE/SEI/SFPE 29-19 include expanded guidance on concrete-filled hollow steel columns, enhanced/updated commentary sections, updated references, and corrections of existing content.

2020 | 126 pp. | List $95 | ASCE Member $71.25
Soft Cover: ISBN 9780784415023 | Stock # 41502
E-book: ISBN 9780784481356 | Stock # 48135
Structural Design for Physical Security
State of the Practice
Task Committee on Structural Design for Physical Security
Manuals and Reports on Engineering Practice (MOP) 142
MOP 142 provides an overview of the typical design considerations encountered in new construction and renovation of facilities for physical security tactics. The constant change in threat tactics and types has led to the need for physical security designs that account for these new considerations and anticipate the environment of the future, with flexibility and adaptability being priorities. This Manual of Practice serves as a replacement for the 1999 technical report Structural Design for Physical Security: State of the Practice and is intended to provide a roadmap for designers and engineers involved in physical security. It contains references to other books, standards, and research.

2020 | 380 pp. | List $170 | ASCE Member $127.50
Soft Cover: ISBN 9780784415498 | Stock # 41549
E-book: ISBN 9780784482681 | Stock # 48268

Structural Fire Engineering
Fire Protection Committee; Edited by Kevin J. LaMalva, P.E.
Manuals and Reports on Engineering Practice (MOP) 138
MOP 138 addresses the current practice, thermal and structural analysis methods, and available information to support structural fire engineering design. Structural fire engineering design is the calculated design of a structure to withstand the thermal load effects of fire, which have the potential to alter the integrity of a structure, based on specific performance criteria. This Manual of Practice is a valuable resource for structural engineers, architects, building officials, and academics concerned with performance-based design for structural fire safety.

2018 | 256 pp. | List $140 | ASCE Member $105
Hard Cover: ISBN 9780784415047 | Stock # 41504

Wind Loads
Guide to the Wind Load Provisions of ASCE 7-16
William L. Coulbourne, P.E. and T. Eric Stafford, P.E.
ASCE Press
The essential guide to the wind load provisions of ASCE 7-16, this book is a helpful guide to the planning, design, and construction of buildings for residential and commercial purposes. While the 2016 revision of ASCE 7 has retained the previously reorganized wind load provisions, the important changes in the ASCE 7-16 wind load provisions are: Modified wind speed maps for the country west of the hurricane-prone region; A fourth wind speed map for Risk Category IV structures; Revised methodology to determine exposure category; Addition of a ground elevation factor to the velocity pressure equation; New provisions for roof top solar arrays, canopies, and bins, tanks, and silos; and; Revised pressure coefficients for components and cladding for sloped roofs.

Wind Loads provides users with tools and insight to apply ASCE 7-16 in everyday practice. This revised and updated guide introduces readers to the relevant sections of the standard and provides an extensive overview of the design procedures and the revised wind speed maps. This book is a necessary reference for practicing structural engineers, as it offers the most authoritative and in-depth interpretation of the wind loads section of Standard ASCE/SEI 7-16.

2020 | 180 pp. | List $85 | ASCE Member $63.75
Soft Cover: ISBN 9780784415269 | Stock # 41526
Whole Building Life Cycle Assessment
Reference Building Structure and Strategies
WBLCA Guide Special Project Working Group of the Sustainability Committee; Edited by Frances Yang, S.E.

Whole Building Life Cycle Assessment: Reference Building Structure and Strategies serves as a guide for the project team to define and model the structural system within the reference building design as required by green building standards and rating systems. The book is organized in two parts. Whereas whole building life cycle assessment (WBLCA) is a relatively new application of life cycle assessment (LCA), this book aims to guide and encourage structural engineers to take an active and meaningful role in green building development.

2018 | 92 pp. | List $80 | ASCE Member $60
Soft Cover: ISBN 9780784415054 | Stock # 41505

Wood Pole Structures for Electrical Transmission Lines
Recommended Practice for Design and Use

Manuals and Reports on Engineering Practice (MOP) 141
Wood Pole Structures for Electrical Transmission Lines: Recommended Practice for Design and Use, MOP 141, provides comprehensive knowledge of the principles and methods for the design and use of wood poles for overhead utility line structures. The use of wood pole structures, properly designed utilizing consistent structural engineering principles, may provide a simple, cost effective, and more resilient option than some of the other pole materials commonly used. This Manual of Practice will be valuable to engineers involved in utility, electrical, and structural engineering.

2019 | 204 pp. | List $120 | ASCE Member $90
Soft Cover: ISBN 9780784415245 | Stock # 41524
E-book: 9780784482056 | Stock # 48205

Proceedings of Structures Congress 2019
The 110 peer-reviewed papers in this collection were presented at the Structures Congress 2019, held in Orlando, Florida, April 24–27, 2019. Sponsored by the Structural Engineering Institute of ASCE.

Structures Congress 2019
Blast, Impact Loading, and Research and Education
Edited by James Gregory Soules, P.E., S.E., P.Eng.
2019 | 429 pp. | List $80 | ASCE Member $60

Structures Congress 2019
Buildings and Natural Disasters
Edited by James Gregory Soules, P.E., S.E., P.Eng.
2019 | 333 pp. | List $80 | ASCE Member $60

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Edited by James Gregory Soules, P.E., S.E., P.Eng.
2019 | 456 pp. | List $84 | ASCE Member $63

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Fillable Forms for Standard
ASCE/SEI 41-13
2015 | 248 pp. | List $210 | ASCE Member $157.50

Wind Loads for Petrochemical and Other Industrial Facilities
Task Committee on Wind-Induced Forces
ASCE Press
2011 | 176 pp. | List $195 | ASCE Member $146.25
Soft Cover: ISBN 9780784411803 | Stock # 41180

Wind-Induced Motion of Tall Buildings
Designing for Habitability
Kenny C. S. Kwok, Ph.D., C.P.Eng.; Melissa D. Burton, Ph.D., C.Eng.; and Ahmad K. Abdelrazzaq, S.E.
2015 | 72 pp. | List $76 | ASCE Member $57.25
Soft Cover: ISBN 9780784413852 | Stock # 41385

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Journal of Structural Engineering
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Biodiesel Production
Technologies, Challenges, and Future Prospects
Edited by R.D. Tyagi; Rao Y. Surampalli, Ph.D., P.E.; Tian C. Zhang, P.E.; Song Yan, Ph.D.; and Xiaolei Zhang Ph.D.

Biodiesel Production: Technologies, Challenges, and Future Prospects presents approaches, technologies and source materials for biodiesel production as well as socio-economic and political impacts of biodiesel applications. This book offers a detailed overview of the benefits, impacts, and production of biodiesel. Researchers, scientists, engineers, students, policy makers, and government officials will find this book a valuable reference of comprehensive information on biodiesel production.

2019 | 864 pp. | List $230 | ASCE Member $172.50
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Climate-Resilient Infrastructure
Adaptive Design and Risk Management
Committee on Adaptation to a Changing Climate; Edited by Bilal M. Ayyub, Ph.D., P.E.

Manuals and Reports on Engineering Practice (MOP) 140
MOP 140 provides guidance for and contributes to the developing or enhancing of methods for infrastructure analysis and design in a world in which risk profiles are changing and can be projected with varying degrees of uncertainty requiring a new design philosophy to meet this challenge. This manual will be of interest to engineers, researchers, planners, and other stakeholders charged with adaptive design decisions to achieve infrastructure resilience targets while minimizing life-cycle costs in a changing climate.

2018 | 310 pp. | List $130 | ASCE Member $97.50
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International Conference on Sustainable Infrastructure 2019
Leading Resilient Communities through the 21st Century
Sponsored by the Committee on Sustainability of ASCE

This collection contains 77 peer-reviewed papers presented at the International Conference on Sustainable Infrastructures 2019, held in Los Angeles, California, November 6–9, 2019. These examine a broad array of contemporary issues in the development of sustainable infrastructure. This proceedings will be of interest to engineers, owners, construction managers, financial experts, technology developers, and government decision makers who work to create better, more integrated multi-beneficial projects.

2019 | List $154 | ASCE Member $115.50
Bioenergy and Biofuel from Biowastes and Biomass
Edited by Samir K. Khanal, Rao Y. Surampalli, Tian C. Zhang, Buddh P. Lamsal, R. D. Tyagi, and C. M. Kao
2010 | 522 pp. | List $155 | ASCE Member $115.50
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Carbon Capture and Storage
Physical, Chemical, and Biological Methods
2015 | 532 pp. | List $168 | ASCE Member $126
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Climate Change Modeling, Mitigation, and Adaptation
2013 | 728 pp. | List $187 | ASCE Member $140.25
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Climate Variations, Climate Change, and Water Resources Engineering
Edited by Jurgen D. Garbrecht and Thomas C. Pichta
2006 | 198 pp. | List $53 | ASCE Member $53
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Cost of Maintaining Green Infrastructure
Edited by Jane Clay and Holly Piza, P.E.
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Engineering for Sustainable Communities
Principles and Practices
2017 | 490 pp. | List $120 | ASCE Member $90
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Green Technologies for Sustainable Water Management
Edited by Huu Hao Ngo, Wenshan Guo, Rao Y. Surampalli, and Tian C. Zhang
2016 | 894 pp. | List $225 | ASCE Member $168.75
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Permeable Pavements
Permeable Pavements Task Committee; Edited by Bethany Eisenberg, LEED AP; Kelly Collins Lindow, P.E.; and David R. Smith
2015 | 262 pp. | List $126 | ASCE Member $94.50
Soft Cover: ISBN 9780784413784 | Stock # 41378

Stormwater Managed Treatment Devices
Certification Guidelines
Joint Task Committee on Guidelines for Certification of Managed Stormwater BMPs; Edited by Qizhong (George) Guo, Ph.D., P.E., D.WRE
2017 | 111 pp. | List $80 | ASCE Member $60
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Sustainability and Energy Management for Water Resource Recovery Facilities
Water Environment Federation and the American Society of Civil Engineers
Manuals and Reports on Engineering Practice (MOP) ASCE MOP 137/ WEF MOP 38
2018 | 74 pp. | List $55 | ASCE Member $41.25
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Sustainability Guidelines for the Structural Engineer
Edited by Dirk M. Kestner, P.E.; Jennifer Goupil, P.E.; and Emily Lorenz, P.E.
2010 | 324 pp. | List $80 | ASCE Member $60
Soft Cover: ISBN 9780784411193 | Stock # 41119

Sustainable Engineering Practice An Introduction
Committee on Sustainability; Edited by Jorge A. Vanegas
2004 | 136 pp. | List $46 | ASCE Member $34.50

Sustainable Water Resources Management
Edited by Chandra S. P. Ojha, Rao Y. Surampalli, András Bárdossy, Tian C. Zhang, and Chi-Ming Kao
2017 | 1045 pp. | List $240 | ASCE Member $180
Soft Cover: ISBN 9780784414767 | Stock # 41476

Urbanization Challenges in Emerging Economies
Energy and Water Infrastructure; Transportation Infrastructure; and Planning and Financing
Edited by Udai P. Singh; B. R. Chahar; H.R.P. Yadav; and Satish K. Vij
2018 | 818 pp. | List $126 | ASCE Member $121.50
Soft Cover: ISBN 9780784482025 | Stock # 48202

Journal of Sustainable Water in the Built Environment
Editor: Allen P. Davis, Ph.D., P.E., D.WRE, FASCE, University of Maryland
E-ISSN: 2379-6111
FREQUENCY: Quarterly • CODEN: JSWBAY
2020 Volume 6 • YEAR ESTABLISHED: 2015
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*Edited by Lei Zhang, Ph.D.; Jianming Ma, Ph.D., P.E.; Pan Liu, Ph.D.; and Guangjun Zhang, Ph.D.*

This collection contains 542 peer-reviewed papers presented at the 19th COTA International Conference of Transportation Professionals, held in Nanjing, China, July 6–8, 2019. Transportation professionals, both academic and practitioner, will find this proceedings a valuable resource for current trends in transportation science and engineering.

2019 | 6380 pp. | List $1086 | ASCE Member $814.50

**E-book:** ISBN 9780784482292 | Stock # 48229

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**Permeable Interlocking Concrete Pavement**

**Standard ASCE/T&DI/ICPI 68-18**

Standard ASCE/T&DI/ICPI 68-18 provides design, construction, and maintenance guidance for permeable interlocking concrete pavement (PICP) to achieve stormwater management goals while providing a structurally adequate pavement section to accommodate the anticipated vehicular loading in a cost-efficient manner. This standard covers the following topics: Definition of common permeable pavement terms; structural design methods to accommodate incidental or frequent vehicular use; hydrologic design methods to accommodate water infiltration and flow within the pavement system; construction and inspection procedures; a guide to construction specifications; and permeable pavement maintenance procedures. This standard will be valuable to civil engineers, design professionals, and public stormwater and transportation agencies by establishing design standards for permeable interlocking concrete pavements.

2018 | 94 pp. | List $110 | ASCE Member $82.50

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**Proceedings of the International Airfield and Highway Pavements Conference 2019**

The 146 peer-reviewed papers in this collection were presented at the International Airfield and Highway Pavements Conference 2019, held in Chicago, Illinois, July 21–24, 2019. Sponsored by the Transportation & Development Institute of ASCE.

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*Edited by Imad Al-Qadi, Ph.D., P.E.; Hasan Ozer, Ph.D.; Andreas Loizos, Ph.D.; and Scott Murrell, P.E.*

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2019 | 587 pp. | List $114 | ASCE Member $85.50

**E-book:** ISBN 9780784482469 | Stock # 48246

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Proceedings of the International Conference on Transportation and Development 2019

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International Conference on Transportation and Development 2019
Innovation and Sustainability in Smart Mobility and Smart Cities
Edited by David A. Noyce, Ph.D., P.E.
2019 | 211 pp. | List $80 | ASCE Member $60

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2006 | 196 pp. | List $73 | ASCE Member $54.75
Soft Cover: ISBN 9780784408421 | Stock # 40842

Automated People Movers and Automated Transit Systems 2018
Moving to the Future, Building on the Past
Edited by William J. Sproule, Ph.D., P.E.
2018 | 193 pp. | List $80 | ASCE Member $60

Bridge Safety and Reliability
Edited by Dan M. Frangopol
1999 | 240 pp. | List $51 | ASCE Member $30.75
Soft Cover: ISBN 9780784404423 | Stock # 40442

Bridging the East and West Theories and Practices of Transportation in the Asia Pacific
Edited by Joel Zhengyi Shen, Ph.D.; Pin-Yi Tseng, Ph.D.; Chao-Hua Chen, Ph.D.; and Shih-Ching Lo, Ph.D.
2016 | 305 pp. | List $84 | ASCE Member $63

Challenges and Advances in Sustainable Transportation Systems Plan, Design, Build, Manage, and Maintain
Edited by Yong Bai, Ph.D., P.E.; Xiuli Du, Ph.D.; Pei-Sung Lin, Ph.D., P.E.; Wei-Chou Virgil Ping, Ph.D., P.E.; Endi Zhai, Ph.D., P.E.; and Yilei Huang, Ph.D.
2014 | 720 pp. | List $232 | ASCE Member $174
Soft Cover: ISBN 9780784413364 | Stock # 41336

Climatic Effects on Pavement and Geotechnical Infrastructure
Edited by Jenny Liu, Ph.D., P.E.; Peng Li, Ph.D.; Xiong Zhang, Ph.D., P.E.; and Baoshan Huang, Ph.D., P.E.
2014 | 238 pp. | List $99 | ASCE Member $74.25
Soft Cover: ISBN 9780784413326 | Stock # 41332

Footprint Design Manual for Local Roads
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