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2021 INTERNATIONAL CODES®



2021 International Building Code® (IBC®)

This code applies to all buildings except detached one- and two-family dwellings and townhouses up to three stories. The 2021 IBC contains many important changes such as:



Nonstructural:

- Puzzle rooms (escape rooms) are now defined and regulated as special amusement areas, requiring compliance with Section 411 and special means of egress requirements.
- For the purposes of determining the allowable number of control areas in a building, each portion separated by one or more fire walls is now considered as a separate building.
- In Group E occupancies, enhanced classroom acoustics in compliance with from ICC A117.1-2017 Standard for Usable and Accessible Buildings and Facilities are to be provided in all classrooms having of volume of 20,000 cubic feet or less.
- The use of intermodal shipping containers as buildings is now specifically addressed through provisions intended to supplement existing applicable IBC requirements.
- Automatic sprinkler protection is now required in Group S-2 open parking garages where any fire area exceeds 48,000 square feet.
- New conditions have been identified to permit approved locking devices on doors provided for egress from an exterior space, such as an exterior patio, balcony or deck, through the building.

Structural:

- From an application perspective, requirements for metal composite materials installed on exterior walls of buildings of Type I, II, III and IV construction have been significantly simplified and limited.
- Parapets of a minimum height are now required for aggregatesurfaced roofs to prevent blow-off.
- Mixed occupancy buildings with assembly spaces are placed in Risk Category III when the total public assembly occupant load is greater than 2500 people.
- The 2021 IBC snow map is updated to match ASCE 7-16 snow maps by adding a reference to ASCE 7 snow tables in states with large case study areas.
- Secondary rain loads are updated to be consistent with ASCE 7. A 15- or 60-minute duration may be used for design.
- Installation of firestop, fire-resistant joint systems and perimeter fire barrier systems in residential-use buildings now requires special inspection in Group R fire areas having an occupant load exceeding 250 people.
- Frost protection for egress doors was added to the foundation requirements.
- Standards ACI 117 and ITG 7 were added to the IBC by reference to provide acceptable tolerances for concrete construction.

PREMIUM SUBSCRIPTION (1-YEAR)* (8700A21)	106.00	79.50
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2021 International Residential Code[®] for One- and Two-Family Dwellings (IRC[®])

This comprehensive code comprises all building, plumbing, mechanical, fuel gas and electrical requirements for one- and two-family dwellings and townhouses up to three stories. The IRC contains many important changes such as:



- Braced wall lines must be placed on a physical wall or placed between multiple walls.
- The rated separation for two-family dwellings is 1 hour whether or not a lot line exists between units.
- Emergency escape and rescue openings require a clear 36-inchwide path to a public way.
- · An engineered design is required for storm shelters.
- A habitable attic is limited to one-half the area of the story below and the dwelling requires sprinklers.
- Updated Wind Speed maps match IBC and ASCE 7 maps.
- Deck design now considers snow load, tributary area for footing and post height, and guard details.
- $\cdot \;$ Specific requirements for deck guardrails were added.
- Component and cladding wind pressures in Table R301.2(2) are updated for new design wind speeds and hip or gable roof profiles.
- Minimum footing size tables are revised to more accurately reflect current practice.
- \cdot Cripple wall requirements apply only to exterior cripple walls.
- New appendices for cob construction and 3D printed construction are added.
- Dedicated space and wiring are required for future electric vehicle (EV) charging.
- A 30 percent reduction of airflow is permitted for balanced ventilation systems.
- $\cdot~$ The head pressure for a water test of DWV systems increased to 10 feet.
- Air vacuum testing is now permitted for plastic piping DWV systems.
- Section P2904 for dwelling sprinklers is expanded to more closely align with NFPA 13D.
- An emergency service disconnect is required in a readily accessible outdoor location.
- A surge-protective device (SPD) is now required at the service panel.
- The number of receptacle outlets required for peninsular and island countertops in kitchens is determined by the area of the countertop surface.
- GFCI protection is now required for damp and wet locations not included in the other 10 areas requiring GFCI protection.

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2021 INTERNATIONAL CODES

2021 International Fire Code® (IFC®)

The IFC contains regulations to safeguard life and property from fires and explosion hazards. Topics include general precautions, emergency planning and preparedness, fire department access and water supplies, automatic sprinkler systems, fire alarm systems, special hazards, and the storage and use of hazardous materials. Key changes to the IFC include:



- · Requirements for Additive Manufacturing
- (3-D Printing) equipment and operations for both non-industrial and industrial applications are now provided.
- Flame propagation performance of permanently installed artificial combustible vegetation is required to be verified when exceeding certain heights located on roofs or in close proximity to buildings.
- Provisions for emergency responder communication were revised to reflect the expansion of such systems beyond radios and the need for increased performance of such systems.
- Sprinkler requirements for the storage, manufacture and sale of upholstered furniture and mattresses were updated and clarified.
 Part of this update is a new exception for single-story self-storage facilities accessed directly from the exterior.
- An automatic sprinkler system is now required for open parking garages exceeding a certain fire area threshold.
- The requirements for energy storage system (ESS) were further refined to reflect the variety of new technologies and applications (in building and standalone) and the need for proper commissioning and decommissioning of such systems.
- A new chapter was added that provides clarification and specific requirements for the storage of distilled spirits and wines in barrels and casks.
- The provisions for construction fire safety were reorganized and expanded with an emphasis on the owner's responsibilities. The new language requires a site safety plan and designation of a site safety director.

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## 2021 International Wildland-Urban Interface Code® (IWUIC®)

Contains provisions addressing fire spread, accessibility, defensible space, water supply and more for buildings constructed near wildland areas.



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PDF/REDLINE DOWNLOAD	(8785PR21)	55.25	41.50
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## 2021 International Existing Building Code® (IEBC®)

Encourages the use and reuse of existing buildings. This code covers repair, alteration, addition and change of occupancy for existing buildings. and historic buildings, while achieving appropriate levels of safety without requiring full compliance with the new construction requirements contained in this other I-Codes. Key changes include:



- For storm shelters, the required occupant capacity is now limited to the total occupant load of the classrooms, vocational rooms and offices in the school while the maximum distance of travel has been deleted.
- When significant portions of a building's exterior wall coverings or exterior wall envelope are added or replaced, they must comply with the requirements of Chapters 14 and 26 of the IBC.
- Snow loads must be addressed during repair of substantial structural damage regardless of whether the damage was a result of snow.
- Additions, Level 3 alterations and Changes of occupancy in Educational occupancies are now required to meet the enhanced classroom acoustic requirements of Section 808 of ICC A117.1.
- Additional equipment may be added to a roof without a full structural analysis when the equipment weighs less than 400 pounds and is less than 10 percent of the total roof dead load.
- $\cdot~$  With a change of occupancy, a seismic analysis is required for a Group S or Group U occupancy changing to a new occupancy.
- Sprinkler requirements for Level 2 and Level 3 alterations are revised for higher hazard areas.

PREMIUM SUBSCRIPTION (1-YEAR)* (87	′55A21) 57.35	43.00
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## 2021 International Swimming Pool and Spa Code® (ISPSC®)

The only comprehensive swimming pool code coordinated with the current requirements in the I-Codes and APSP standards. The ISPSC establishes minimum regulations for public and residential pools, spas, and hot tubs using prescriptive and performance-related provisions. The ISPSC integrates seamlessly with the family of I-Codes and contains



requirements that meet or exceed the Virginia Graeme Baker Act.

PREMIUM SUBSCRIPTION (1-YEAR)* (872	4A21) 59.85	44.90
SOFT COVER	0S21) 88.00	66.00
PDF/REDLINE DOWNLOAD	PR21) 79.25	59.50
SOFT + PDF/REDLINE COMBO	PR21) 117.00	88.00

#### 2021 International Plumbing Code® (IPC®)

The IPC provides minimum regulations for plumbing facilities and provides for the acceptance of new and innovative products, materials, and systems. In October 2019, the Code Council released an independent study comparing model plumbing codes. It found that over a 12-year period, counties using the IPC saved \$38 billion in construction costs, emitted 1,000,000 fewer tons of carbon



dioxide, saw an additional 166,000 jobs, and saved 880 million feet of pipe. On average, a single-family home could save up to \$4,000 in labor, materials and overhead compared to that same home built to other codes. To learn more about the IPC's impact on construction, the economy and the environment, read the full report at www.iccsafe.org/IPC.

Important changes in the 2021 IPC include:

- · Multiple-user toilet facilities to serve all genders are now permitted.
- Two new methods for relining/rehabilitation of existing sewers are added.
- · Accommodations for mounted roof top solar panels over vent terminals is added.
- CSA B805/ICC 805 Rainwater Harvesting Systems is allowed as an alternative design method.
- Plumbing provisions from ICC A117.1-2017 Standard for Usable and Accessible Buildings and Facilities are now included.

PREMIUM SUBSCRIPTION (1-YEAR)*	* (8720A21)	65.65	49.25
SOFT COVER	(3200S21)	96.50	72.00
LOOSE LEAF	(3200L21)	113.00	85.00
PDF/REDLINE DOWNLOAD	(8720PR21)	87.00	65.25
SOFT + PDF/REDLINE COMBO	(3200SPR21)	129.00	96.75
LOOSE + PDF/REDLINE COMBO	(3200LPR21)	140.00	105.00
SOFT + TURBO TABS COMBO	(3200ST21)	108.00	81.00
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## 2021 International Private Sewage Disposal Code® (IPSDC®)

This companion to the IPC includes provisions for design, installation, and inspection of private sewage disposal systems, and provides flexibility in this development of safe systems.

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(8796A21)28.00	21.00	
SOFT COVER		1
(3960S21)41.25	31.00	
PDF/REDLINE DOWNLOAD	(8796PR21)	37.00
SOFT + PDF/REDLINE COMBO	960SPR21)	54.50

#### 2021 International Mechanical Code® (IMC®)

Establishes minimum regulations for mechanical systems using prescriptive and performance-related provisions. The IMC was developed with broad-based principles that make possible the use of new materials, methods and design. Important changes in this edition include:



- Clothes dryer exhaust terminals required to be at least 3 feet from any opening into a building.
- Polyurethane spray-applied foam on the exterior of ducts in attics and crawl spaces required to meet specific smoke and flame index limits.
- Fire and smoke dampers must be provided with approved access for inspection and maintenance.
- · Refrigerant tables updated to include new refrigerants.
- · Addition of condensate termination identification markings and discharge restrictions.
- Approved factory-built combination intake/exhaust terminations permitted, relaxing separation requirement.
- 30% reduction in minimum mechanical ventilation for wholehouse balanced ventilation systems.
- Continuous operation requirement for manicure and pedicure station exhaust systems.
- · Grease duct horizontal cleanout required within 3 feet of a horizontal discharge fan.

PREMIUM SUBSCRIPTION (1-YEAR)* (8730A21)	65.65	49.25
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#### 2021 International Fuel Gas Code® (IFGC®)

Addresses the design and installation of fuel gas systems and gas fired appliances through prescriptive and performance requirements. Key changes include:



- The termination of concealed condensate piping requires marking to indicate if it is the primary drain or the secondary drain.
- Press-connect joints are acceptable for high pressure (over 5 psig) applications indoors.
- Commercial cooking appliances are not allowed within dwelling units.

PREMIUM SUBSCRIPTION (1-YEAR)* (8760A21)	65.65	49.25
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## 2021 INTERNATIONAL CODES®

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SOFT + SIGNIF. CHANGES COMBO (7808BN21)	93.00	69.00

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#### 2021 IECC and ANSI/ASHRAE/IES Standard 90.1-2019

This convenient publication contains the 2021 IECC[®] and ANSI/ ASHRAE/IES Standard 90.1-2019: *Energy Standard for Buildings Except Low-Rise Residential Buildings* in a single volume to provide you with the information you need to achieve optimal energy conservation.

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## 2021 International Property Maintenance Code® (IPMC®)

Provides requirements for continued use and maintenance of building elements, site conditions, swimming pools, plumbing, mechanical, electrical and fire protection systems in existing residential and nonresidential structures.

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(8750A21)	
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(3900SPR21)57.75	43.25



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The electrical code designated for use with the I-Codes

This revised and expanded edition features state-of-the-art information for safe electrical practices for public and private buildings, homes and structures, outdoor yards and

lots, utility equipment, installations that connect to the power grid, and consumer-owned power generation systems and equipment. Content has been added, edited, and reorganized to address safety for workers, energy systems and electric vehicles, limited energy, and communication systems.

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#### **2021 Designer Collection**

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IBC

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## 2018 International Codes











#### 2018 International Building Code

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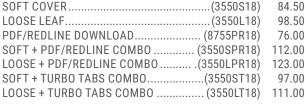
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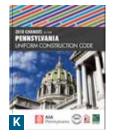
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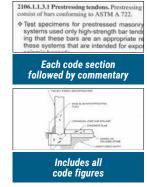
PREMIUM SUBSCRIPTION (1-YEAR)* (871A18B)	192.00	154.00
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This helpful series uses a straightforward, focused approach to explore code requirements with non-code language, allowing readers to gain confidence in their understanding of the material. Each book is an invaluable companion guide to the 2018 and 2015 I-Codes for both new and experienced code users.



Each book contains:

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- A glossary of code and construction terms that clarify their meaning in the context of the code

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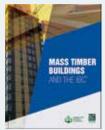
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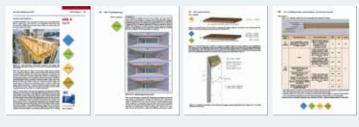
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This first edition provides an overview of requirements for mass timber construction in the 2021 IBC. The book reviews the 2015 IBC's recognition of cross-laminated timber (CLT), the reorganization of heavy timber provisions in the 2018 IBC, followed by the historic changes in the 2021 IBC and IFC for tall mass timber construction. The 2021 IBC and IFC include important changes in material technologies and their expanded use as proposed by the ICC Ad Hoc Committee on Tall Wood Buildings. Three new types of construction (Types IV-A, IV-B and IV-C) defined and included in the 2021 codes allow the use of mass timber for buildings of taller heights, more stories above grade, and greater allowable areas compared to existing provisions for heavy timber buildings.

Features:

- · 100+ full-color photos, illustrations and tables
- "Change Significance" topics offer helpful background regarding code provisions
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- Detailed examples
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An incredibly valuable and time-saving reference for architects, engineers, building/fire officials and inspectors. (220 pages)



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#### Building Codes Illustrated: A Guide to Understanding the 2018 International Building Code, Sixth Edition

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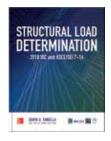


Steven Winkel, FAIA, the new sixth edition cover such information as: use and occupancy; building heights and areas; types of construction; fire-resistive construction; interior finishes; means of egress; accessibility; energy efficiency; roof assemblies; structural provisions; special inspections and tests; soils and foundations; building materials and systems; and more. (480 pages)

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Discover how to calculate structural loads within the context of 2018 IBC and ASCE/ SEI 7-16 requirements. This practical guide by David A. Fanella contains information engineers need to design buildings that will withstand the forces of gravity, occupancy, and environmental stress. It includes design



examples, flowcharts, and load diagrams that illustrate complex load provisions. The book explains the proper application of allowable stress design (ASD), load resistance factor design (LRFD), and seismic load combinations. Chapters cover occupancy, roof, rain, snow, ice, wind, seismic, and tsunami loads. Throughout, emphasis is placed on the proper application of load provisions within the scope of everyday practice. (512 pages)

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## I-Code References | IBC[®], IRC[®]











#### **NEW EDITION!**

## D. Deck Construction: Based on the 2018/2021 International Residential Code

This updated edition is the most comprehensive deck code and commentary publication available. It contains provisions for decks from both the 2018 and 2021 IRC. Alongside the reprinted IRC sections, tables, and figures, the book contains unique commentary with instructional photos and illustrations to help readers understand the intent and purpose behind the code provisions. Deck contractors, designers, homebuilders, plan reviewers, inspectors, manufacturers and others can easily access and learn the minimum standards of deck construction. More than a "how to" guide for deck building, the book is a valuable guide for deck code compliance intended for those already familiar with basic deck construction.

SOFT COVER(4140	JS21) 49.95	39.95
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#### FROM APA & ICC!

#### E. A Guide to the 2018 IRC Wood Wall Bracing Provisions

Although it is of critical importance when designing, performing plan review, building or inspecting a structure, wall bracing is a common source of confusion and misapplication. This illustrative guide was developed to help building designers, builders, building officials and others using the code in the application of the lateral bracing requirements of the 2018 IRC.

Topics covered include:

- · Understanding wind and seismic forces on a house
- History of bracing and how it works
- Learning the "language" of bracing
- The physical limits under which bracing can be used
- Bracing options available to the builder/designer
- Rules for the use of bracing
- Determining how much bracing is required with adjustments and variations
- Connection details for bracing units
- Cripple walls and foundations
- · Special bracing provisions for stone and masonry veneer
- Whole house considerations

The guide is jointly published by ICC and APA – The Engineered Wood Association with the shared goal of promoting the accurate understanding and correct application of the IRC for safer buildings and communities. (265 pages)

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PDF DOWNLOAD	(8799P18)	39.50	31.50
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FLASHCARDS......(1021S18)25.0020.00See page 29 for more titles in this series.

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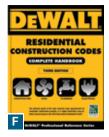
#### **C. CodeMaster Series**

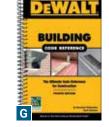
#### for the 2018 IBC and referenced standards

These handy, laminated reference guides are packed with valuable information such as easy-to-follow multi-step procedures and helpful illustrations.

Strength Design for Masonry (2018 IBC and TMS 40 8 PAGES		15.20
Allowable Stress Design for Masonry (2018 IBC) 8 PAGES	19.00	15.20
Structural Wood Design ASD/LRFD (2018 IBC, ASCE 2018 NDS) 6 PAGES	E 7-16, 17.00	13.60
Flood Resistant Design (2018 IBC, 2018 IRC, ASCE ASCE 24-14) 8 PAGES	7-16, 19.00	15.20
Seismic Design (2018 IBC and ASCE 7-16) 6 PAGES	17.00	13.60
Seismic Design Category (2018 IBC, ASCE 7-16) 2 PAGES	7.00	5.60
Design for Snow Loads (2021 and 2018 IBC, ASCE 6 PAGES	7-16) 16.00	12.80

## I-Code References | IRC[®], IFC[®]





#### F. DEWALT 2018 Residential Construction Codes: Complete Handbook, Third Edition

Based on the 2018 IRC, this full-color illustrated guide covers the most common code requirements for building one- or two-family dwellings, and presents them to users in an easy to navigate and easy to understand format. Sections cover a wide range of residential construction topics including building, plumbing, mechanical, and electrical installations, with high-dimensional illustrations to help explain code application. (368 pages)

#### G. DEWALT Building Code Reference, Fourth Edition

References the 2018 IRC as the foundation for learning common code requirements, violations, and installation concerns. Retaining the simple, easy-to-understand approach that made the previous edition wildly successful, the revised *Building Code Reference* provides illustrations and clear, concise text. Coverage ranges from wall, floor, and roof framing to foundations and footings, containing all the information you need to be successful in the industry in a compact, easy-to-use reference guide. Packaged in a convenientlysized, durable format, it will withstand a variety of on-the-job trainings and ultimately the wear and tear of jobsites. (84 pages)

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#### J. Fire Inspector's Guide: Based on 2018 International Fire Code

Your ideal resource for effective, accurate, consistent, and complete fire inspections. The Inspector's Guide provides a comprehensive review of the 2018 IFC organized in a manner consistent with the inspection sequence for easy use on site. It is developed to increase inspection effectiveness and consistency by focusing on the most important provisions. This pocket-sized reference with spiral binding and durable laminated cover is ideal for everyday use.

SOFT COVER	.(4401S18)	23.95	19.00
PDF DOWNLOAD	.(8748P18)	21.50	17.25

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See page 30 for complete details and special savings on combos. (560 pages)

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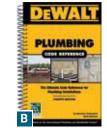
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## I-Code References | IEBC[®], IPC[®], IMC[®]







#### A. 2018 International Existing Building Code Handbook

This practical guide shows, step by step, how to apply the provisions of the 2018 IEBC when carrying out repairs, alterations, additions, changes in occupancy, and detailed evaluations for buildings of all sizes. Author Chris Kimball, SE, MCP, CBO, compiles all the information needed to understand the IEBC provisions and apply them properly to meet structural, fire, accessibility, and other code-related requirements. It begins with an overview of the IEBC, permits, construction documents, and other administrative requirements. It goes on to explain the three different compliance methods that can be followed under the IEBC. Throughout, diagrams, flowcharts, and illustrated examples clearly demonstrate the proper application of the code. Coverage includes:

Common	provisions
0011111011	provisions

- · Repairs
- · Prescriptive method
- Work area method
- · Performance compliance method
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#### **B. DEWALT Plumbing Code Reference, Fourth Edition**

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A valuable collection that greatly simplifies researching the history of a new, revised or deleted code section from 2018 to 2021. Available now in PDF download, it collects all changes that occurred and includes the original proposal with the reason statement, committee action, and final action documentation in a single source providing a great resource for adopting jurisdictions and supporting the intended interpretation of new and revised code sections. (520 pages)

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## E. Plumbing Venting: Decoding Chapter 9 of the IPC[®], Second Edition

This in-depth illustrated manual by Master Plumber Bob Scott examines various venting methods and includes discussion and application of venting methods in the IPC and IRC. This insightful guide shows correct and incorrect examples of common venting, horizontal and vertical wet-venting, combination waste and vent, circuit venting, single stack venting and more based on the criteria established in chapter 9 of the 2021 IPC and Chapter 31 of the 2021 IRC, as well as the 2015 and 2018 editions of the IPC and IRC. It discusses the nuances of each method in detail and gives many examples of how and where to use each method. A musthave guide for any designer, installer, plan examiner, inspector or plumbing professional.

SOFT COVER(9208S2)	54.00	43.00
PDF DOWNLOAD(8950P908)	48.50	38.50

#### 2018 International Code Study Companions

The Study Companion study sessions provide practical learning assignments and questions summarizing key points for study. See page 30–31 for complete details and special savings on combos.

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F. 2018 IMC® Study Companion SOFT COVER PDF DOWNLOAD		57.00 51.00	45.75 41.00
2018 IFGC® Study Companion SOFT COVER PDF DOWNLOAD		53.00 48.00	42.50 38.25
2018 IECC [®] Study Companion SOFT COVER PDF DOWNLOAD 2015 and 2012 editions are also a	(8950P833)	53.00 48.00	42.50 38.25

## I-Code References | IPC[®], IMC[®], IECC[®], and more













#### K-L. 2018 Plan Review Records

A thorough checklist of applicable code sections from the 2018 International Codes® and references to other applicable standards. The Plan Review Records are an essential resource to conduct detailed, consistent plan reviews. Sold in sets of 10.

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CHECKLIST	44.95	35.95
International Plumbing Code®	20.00	15.00
CHECKLIST	44.95	35.95
ICC A117.1-09 (as referenced in the 2018 IBC®)	20.00	15.00
CHECKLIST	44.95	35.95
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Helpful study tools that provide code users, students and exam candidates with an effective, time-tested method for study and information retention. Each set includes easy-to-use FlashCards that are prepared and reviewed by code experts to ensure accuracy and quality. **See page 30–31 for special savings on combos.** 

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2018 IMC® FLASHCARDS(1321S18)	21.00	16.95
2018 IPC® FLASHCARDS(1221S18)	21.00	16.95
2018 IECC® FLASHCARDS(1821S18)	19.00	15.00

#### **H. Energy Efficiency Certificate Stickers**

The energy provisions in IRC® Section N1101.8 and IECC® Section 401.3 require a type of certificate be installed. This sticker clearly lists the general insulation, window performance, and equipment efficiency details.

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#### I. Complete Revision History to the 2018 I-Codes®: Successful Changes and Public Comments

Available now in PDF download, this valuable collection greatly simplifies researching the history of a new, revised or deleted code section from 2015 to 2018. It collects all changes that occurred in the 2018 IBC®, IRC®, IEBC®, IECC®, IFC®, IMC® and IPC®.

For each successful change, the book includes:

- the original proposal with proponent's reason
- committee action with any modification
- any public comments made
- final action documentation

The book compiles the proponent's original reason for the change, unabridged statements that substantiated code development committee actions and the complete documentation for any public comment that was considered prior to final action on the change. (3,309 pages)

PDF DOWNLOAD(8950	P830)	87.50	69.95
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#### J. 2018 International Code Interpretations

This publication is a compilation of interpretations applicable to the 2018 International Building, Energy Conservation, Existing Building, Fire, Fuel Gas, Mechanical, Plumbing, Residential, and Swimming Pool and Spa Codes. For convenience, the book is organized by code and code section, and includes applicable code text with each interpretation. (250 pages)

PDF DOWNLOAD	(8950P863)	36.00	28.95
2015 edition also available.			







Since 1961, the A117.1 Standard has been at the forefront of creating a built environment open to everyone. The specifications in this standard enable people with physical disabilities to independently access and use sites, facilities, buildings and elements. Key changes in the 2017 edition apply to:

- clear floor space, turning space and the accessible route, increasing maneuverability for users of powered wheelchairs and scooters.
- the accessible route through a parking lot.
- · charging of powered wheelchairs when parked for duration.
- spaces for sign language interpreter stations and sign language video booths.
- · electric vehicle charging stations.
- $\cdot \;$  water bottle filling stations.
- · classroom acoustics.

#### 2017 Edition (200 pages)

SOFT COVER	49.95	39.95
PDF DOWNLOAD	44.95	35.95
SOFT COVER + TURBO TABS(9033ST17)	62.50	50.00
SOFT COVER + SIGNIFICANT CHANGES (7811BN17)	75.50	60.50
2009 Edition (120 pages)		
SOFT COVER	48.95	39.00
PDF DOWNLOAD(8722P09)	44.00	35.00

## **B. ICC 300-2017: Bleachers, Folding and Telescopic Seating, and Grandstands**

This ANSI-approved standard contains comprehensive regulations for the design, inspection and construction of new and existing installations. (32 pages)

SOFT COVER	.(9181S17)	33.95	27.00
PDF DOWNLOAD	.(8745P17)	30.50	24.50

#### C. ANSI/RESNET/ICC 301-2019: Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index

This Standard provides a consistent, uniform methodology for evaluating and labeling the energy performance of residences (dwelling units and sleeping units). This 2019 edition has expanded to include rating procedures for dwelling and sleeping units in buildings of any height. The methodology compares the energy performance of an actual residence with the energy performance of a reference version of the same geometry, resulting in a relative energy rating called the Energy Rating Index. Where the actual residence requires no net purchased energy annually, the Energy Rating Index is zero.

SOFT COVER	(7028S19)	37.50	30.00
PDF DOWNLOAD	(8950P859)	33.75	27.00







NEW!

## ANSI/RESNET/ACCA/ICC 310-2020: Standard for Grading the Installation of HVAC Systems

This Standard establishes the procedures, tolerances, and record keeping practices for evaluating and grading elements of a HVAC system's design and installation. It is intended to support consistency in energy rating and labeling and is intended for use by home energy raters, energy auditors, or HVAC contractors. The Standard applies to Unitary HVAC systems and is comprised of five tasks: a design review, a total duct leakage test, a Blower Fan volumetric airflow test, a Blower Fan watt draw test, and a noninvasive evaluation of refrigerant charge. (170 pages)

SOFT COVER	.(9300S20)	37.50	30.00
PDF DOWNLOAD	(9300P20)	33.75	27.00

#### D. ANSI/RESNET/ICC 380-2019: Standard for Testing Airtightness of Building, Dwelling Unit, and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems; and Airflow of Mechanical Ventilation Systems

Provides a consistent, uniform methodology for evaluating the airtightness of dwelling and sleeping unit enclosures, the airtightness of heating and cooling air distribution systems, and the airflows of mechanical ventilation systems. These test procedures can be used for building diagnostics, for quality assurance and control, for determining compliance with codes and standards, and for determining input to energy simulation models for energy ratings. This 2019 edition has expanded to include testing procedures for enclosures and systems of Dwelling and Sleeping Units in buildings of any height.

SOFT COVER	(7029S19)	28.00	22.50
PDF DOWNLOAD	(8950P860)	25.25	20.25

## E. ICC 400-2017: Standard on the Design and Construction of Log Structures

Addresses issues integral to log construction including production, structural aspects, thermal envelope, and settlement. This ANSIapproved standard offers a solid reference for design, construction, and installation requirements for log structures. (76 pages)

SOFT COVER	(7017S17)	39.00	31.00
PDF DOWNLOAD	(8950P829)	35.00	28.00







## F. ICC 500-2014: ICC/NSSA Standard for the Design and Construction of Storm Shelters

Published by ICC and the National Storm Shelter Association, this ANSI-approved standard provides minimum design and construction requirements for storm shelters that provide a safe refuge from storms producing high winds, hurricanes, and tornadoes. This standard provides design requirements for the main wind-resisting structural system and components and cladding of these shelters, and provides basic occupant life safety and health requirements for these shelters including means of egress, lighting, sanitation, ventilation, fire safety, and floor space. (50 pages)

SOFT COVER	(7026S14)	33.95	27.00
PDF DOWNLOAD	(8850P14)	30.50	24.00
0			

See page 17 for ICC 500 Standard and Commentary.

#### ICC 600-2014: Standard for Residential Construction in High-Wind Regions

Provides wind resistant designs and construction details for residential buildings of masonry, concrete, wood-framed or coldformed steel framed construction sited in high wind regions. It contains prescriptive requirements and other details of construction for buildings sited in wind climates of 120 to 180 mph in 10 mph increments. It provides an adoptable, contemporary set of prescriptive requirements that supplement the IRC® provisions. (218 pages)

SOFT COVER(7027S14)	37.00	29.50
PDF DOWNLOAD(8747P14)	33.00	26.50

#### **NEW EDITION!**

#### G. ICC 700-2020: National Green Building Standard

Outlines a variety of green design and construction practices that can be incorporated into single-family, multifamily, and mixed-use buildings, either for new construction or remodeling. The standard also includes green practices for land development projects as well as assisted living facilities, residential board and care facilities, and group homes. It includes high-performance building practices in six areas: Lot Design and Development, Resource Efficiency, Water Efficiency, Energy Efficiency, Indoor Environmental Quality, and Building Operation & Maintenance. The NGBS has four primary certification levels—Bronze, Silver, Gold and Emerald, providing residential building professionals options to integrate sustainability and high performance into their projects at an appropriate level.

SOFT COVER(9551S20)	21.95	19.95
PDF DOWNLOAD(8950P892)	19.75	17.95

## ASABE/ICC 802-2014: Landscape Irrigation Sprinkler and Emitter Standard

This ANSI-approved standard from the American Society of Agricultural and Biological Engineers (ASABE) and ICC addresses the design, features, performance and testing of sprinklers, bubblers and emitters used in landscape irrigation systems.

SOFT COVER	36.00	28.95
PDF DOWNLOAD	32.50	26.00







#### H. CSA B805-18/ICC 805-2018: Rainwater Harvesting Systems

Addresses use of rainwater in non-potable applications (e.g., irrigation, fire protection, toilet flushing, clothes washing, hose bibs, decorative fountains, and vehicle washing) and potable applications (e.g., human consumption, oral care, food preparation, dishwashing, and bathing). In this standard, "rainwater harvesting" refers to harvesting of either roof runoff or stormwater runoff. (94 pages)

SOFT COVER	(9603S18)	128.00	102.00
PDF DOWNLOAD	(8950P843)	115.00	92.00

#### NEW!

#### I. ANSI/RESNET/ICC 850-2020: Standard for the Calculation and Labeling of the Water Use Performance of One- and Two-Family Dwellings Using the Water Rating Index

Provides a consistent, uniform methodology for evaluating, quantifying, and labeling the water use performance of one- and two-family dwellings. The methodology compares the water use performance of an actual home (rated home) with the water use performance of a reference home of the same geometry, resulting in a relative Water Use Rating called the Water Rating Index (WRI).

SOFT COVER	(7038S20)	28.00	22.50
PDF DOWNLOAD	.(8950P883)	25.25	20.25

#### J. ICC 900/SRCC 300-2015: Solar Thermal System Standard

Establishes minimum criteria for the design and installation of solar thermal systems. It describes the requirements and methodology for solar thermal system design and evaluation. (28 pages)

SOFT COVER	(7055S15)	33.95	27.00
PDF DOWNLOAD			

#### ICC 901/SRCC 100-2015: Solar Thermal Collector Standard

This standard establishes minimum criteria for the design, manufacture and testing of solar thermal collectors. It addresses a wide range of solar thermal collectors, including flat panel, evacuated tube, concentrating, integrated storage and unglazed. The standard incorporates the provisions of SRCC Standard 600 to create a single standard addressing the widest possible range of solar thermal collectors. (32 pages)

SOFT COVER	(7056S15)	27.75	22.00
PDF DOWNLOAD	(8950P709)	24.95	19.95

#### K. ICC 902/APSP 902/SRCC 400-2017: Solar Pool and Spa Heating System Standard

Establishes minimum criteria for the design and installation of solar water heating systems for pool and spa applications. It addresses both residential and commercial pools and spas, consistent with the requirements of ICC's ISPSC and other relevant APSP/ICC standards for these applications. This standard builds upon ICC 900/SRCC 300. (32 pages)

SOFT COVER(4802S17)	39.95	31.95
PDF DOWNLOAD(8814P17)	35.95	28.75











#### SES 2: 2011, Model Procedure for the Development of Standards

Contains all of the essential requirements of due process that a credible standards development organization should consider. The procedure was revised according to a test case through the ANSI Executive Standards Council. (18 pages)

SOFT COVER	.(9634S11)	35.00	25.00
PDF DOWNLOAD	(8950P752)	35.00	25.00

#### SES 3: 2016, Recommended Practice for Joint Standards Development

Outlines the key components of a Joint Standards Agreement and a recommended process for managing the development of Joint Standards. (16 pages)

#### D. ASTM Masonry Standards for the Building Industry, 8th Edition

With 11 new standards, 25 updated standards and 112 total standards, the new compilation is a powerful technical resource for designers, manufacturers, engineers, architects, specifiers, professors, and consultants involved in production, design, or testing of masonry products or assemblies. The publication provides specifications for products such as hollow and solid load-bearing concrete masonry units, building brick, paving brick, concrete brick, concrete paving units, masonry cement, mortar cement, mortar and grout. (650 pages)

A limited supply is available.

#### E. AISC Steel Construction Manual, 15TH Edition

Includes: 2016 Specification for Structural Steel Buildings, 2014 RCSC Specification for Structural Joints Using High-Strength Bolts, and 2016 AISC Code of Standard Practice for Steel Buildings and Bridges.

HARD COVER	(9206S15)	400.00	201.00
14th edition also available.			

#### NEW!

#### A. ICC 1100-2019: Standard for Spray-Applied Polyurethane Foam Plastic Insulation

This first-edition standard establishes minimum physical property and performance requirements for spray-applied polyurethane foam plastic thermal insulation in order to demonstrate compliance with the intent of the model building codes for a variety of construction applications. This standard also establishes basic installation requirements. It applies to single- and multiple-component sprayapplied polyurethane foam plastic insulation intended for use in a variety of nonstructural building construction applications.

SOFT COVER	(7019S19)	28.00	22.50
PDF DOWNLOAD	(8950P875)	25.25	20.25

## **ICC Guidelines**

#### B. ICC G4-2018: Guideline for Commissioning

Guides the code official or regulator in implementation and enforcement of commissioning, either with in-house staff or the use of a third party. This guideline can be adopted in whole or in part by the authority having jurisdiction (AHJ) for use with codes and standards that require commissioning including the IgCC. (100 pages)

SOFT COVER	(7054S18)	49.95	39.95
PDF DOWNLOAD	(8950P849)	44.95	35.95

#### C. ICC G5-2019: Guideline for the Safe Use of ISO Intermodal Shipping Containers Repurposed as Buildings and Building Components

New or used, containers are now regularly repurposed and converted into IRC and IBC occupancy uses. As a building material, the applications are widely diverse as is the extent to which the container is used as a structural building element. This Guideline is intended to help state and local jurisdictions as well as owners, architects, builders and engineers in their assessment as to how to design, review and approve shipping containers as a building element. (48 pages)

SOFT COVER	(4702S19)	29.95	23.95
PDF DOWNLOAD .		26.95	21.50

Also available:

- · ICC G1-2010: Guideline for Replicable Buildings
- · ICC G2-2010: Guideline for Acoustics
- ICC G3-2011: Global Guideline for Practical Public Toilet Design











#### **NEW EDITION!**

## F. ACI 318-19: Building Code Requirements for Structural Concrete And Commentary

Provides minimum requirements for the materials, design, and detailing of structural concrete buildings and, where applicable, nonbuilding structures. This Code addresses structural systems, members, and connections, including cast-in-place, precast, shotcrete, plain, non-prestressed, prestressed, and composite construction.

SOFT COVER......(9021S19) 254.00 **169.00** 2014 edition also available.

#### G. ASCE/SEI 7-16: Minimum Design Loads and Associated Criteria for Buildings and Other Structures

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. Significant changes include: new seismic maps, new wind speed maps, new snow load maps, updated rain duration provisions, a new chapter on tsunami design provisions, and a new appendix provisions for fire design. Standard provisions are accompanied by a detailed commentary.

SOFT COVER	(9002S16)	240.00	216.00
2010 edition is also available.			

#### ASCE/SEI 24-14: Flood Resistant Design and Construction

Provides minimum requirements for flood-resistant design and construction of structures located in flood hazard areas. (80 pages)

SOFT COVER......(9020S14) 110.00 89.00

## ASCE/SEI 41-17: Seismic Evaluation and Retrofit of Existing Buildings

Presents a three-tiered process for seismic evaluation according to a range of building performance levels by connecting targeted structural performance and the performance of nonstructural components with seismic hazard levels. The deficiency-based procedures allow evaluation and retrofit efforts to focus on specific potential deficiencies deemed to be of concern for a specified set of building types and heights. (550 pages)

#### ASCE/SEI 55-16: Tensile Membrane Structures

Minimum criteria for the analysis, design, and performance of membrane-covered cable and rigid member structures, collectively known as tensile member structures. This updated edition includes both LRFD and ASD load combinations.

SOFT COVER	(9508S16)	80.00	72.00
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#### TMS 402/602-16 Building Code Requirements and Specification for Masonry Structures

Contains two standards and their commentaries: Building Code Requirements for Masonry Structures (TMS 402-16) and Specification for Masonry Structures (TMS 602-16). These standards are produced by The Masonry's Society's Committee TMS 402/602.

SOFT COVER	(9026S16)	150.00	135.00
2013 edition also available.			

#### I. 2018 NDS Wood Design Package

This three-volume set includes the code-recognized National Design Specification (NDS) for Wood Construction (2018 Edition). It includes design information and examples for wind and seismic conditions, sawn lumber, structural glued laminated timber, structural-use panels, shear walls and diaphragms, poles and piles, l-joists, structural composite lumber, structural connections (nails, bolts, screws) and cross-laminated timber. This package includes:

- · NDS for Wood Construction, 2018 Edition, with Commentary
- NDS Supplement: Design Values for Wood Construction

<ul> <li>2015 Special Design Provisions for</li> </ul>	r Wind and Seis	smic (SDI	PWS)
SOFT COVER	(9542S18)	150.00	135.00
PDF DOWNLOAD	(8950P682)	150.00	135.00
2015 edition also available			

#### 2015 edition also available.

#### I. ANSI/AWC SDPWS-2015: Special Design Provisions for Wind and Seismic

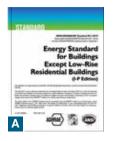
Provides criteria for proportioning, designing, and detailing engineered wood systems, members, and connections in lateral force resisting systems. Engineered design of wood structures to resist wind or seismic forces is either by allowable stress design (ASD) or load and resistance factor design (LRFD). Nominal shear capacities of diaphragms and shear walls are provided for reference assemblies. (56 pages)

SOFT COVER	(9580S15)	60.00	54.00
PDF DOWNLOAD	(8950P683)	60.00	54.00

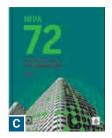
#### J. 2018 WFCM & Commentary

Developed by AWC and referenced in the 2018 IBC and IRC, the WFCM includes design and construction provisions for connections, wall systems, floor systems, and roof systems. A range of structural elements are covered, including sawn lumber, structural glued laminated timber, wood structural sheathing, I-joists, and trusses. Accompanying the WFCM is an extensive Commentary that provides background information and example calculations for various sections and tables of the WFCM. (350 pages)

SOFT COVER	(9104S18)	80.00	55.00
PDF DOWNLOAD	(8950P861)	80.00	55.00
2015 edition also available.			











#### **NEW EDITION!**

#### A. ANSI/ASHRAE/IES Standard 90.1-2019: Energy Standard for Buildings Except Low-Rise Residential Buildings (I-P Edition)

This edition incorporates 100+ addenda to the 2016 edition. This standard provides minimum energy-efficient requirements for the design and construction, and a plan for operation and maintenance of: new buildings and their systems, new portions of buildings and their systems, new systems and equipment in existing buildings, and new equipment or building systems specifically identified in the standard that are part of industrial or manufacturing processes. (424 pages)

SOFT COVER	.(9568S19)	165.00	129.00
2016 edition also available.			

## B. GA-600-18: Gypsum Association Fire Resistance Design Manual, 22[№] Edition

Features more than 150 completely new systems as well as an expanded section on sound control. Altogether it contains more than 700 fire- and sound-rated systems, with information including: walls and interior partitions; shaft walls and exterior walls; area separation fire walls; floor-ceiling and roof-ceiling systems; horizontal membrane systems; column, beam, girder, and truss protection systems; and much more. (390 pages)

SOFT COVER	(9401S18)	59.95	53.95
	(1.0.0.0)	01110	

#### **NEW EDITION!**

#### C. NFPA 72[®] 2019: National Fire Alarm and Signaling Code

Update to the most advanced provisions ever developed for the application, installation, location, performance, and inspection, testing, and maintenance of fire alarm and emergency communications systems including Mass Notification Systems (MNS). This edition features important updates for designers, installers, and AHJs—from added testing requirements for Energy Storage Systems (ESS), to new requirements for HVLS fans and air-sampling smoke detectors. In a major change to scope, NFPA 72 now addresses carbon monoxide protection, incorporating material previously found in NFPA 720. Other key changes address occupant evacuation, areas of refuge, and VRLA batteries. (369 pages)

SOFT COVER......(9435S19) 115.00 **106.00** 2016 edition is also available.

#### **NEW EDITION!**

#### D. NFPA 58: Liquefied Petroleum Gas Code, 2020 Edition

Access safety requirements for all liquefied petroleum gas (propane) installations to help protect homes, businesses, and industrial settings from LP-Gas hazards. Key changes to the 2020 edition include new and revised requirements and procedures accounting for cutting-edge LP-Gas technology and the latest safety protocols and best practices. (163 pages)

SOFT COVER	(9434S20)	76.00	72.00
2017 edition is also available.			



NFPA 13 is reorganized from cover to cover, creating clear separations in subject matter and a more logical flow for sprinkler system planning and design. This edition makes it easier to locate and apply the latest requirements for automatic sprinkler system design, installation, and acceptance testing; hanging and bracing systems; underground piping; and seismic protection. Content is organized logically by sprinkler technology, storage method, commodity, and how you perform your job. Chapter titles are more descriptive and reflect the terminology in use today, while duplicate content was removed to help eliminate confusion. A section-tosection number comparison of the 2016 edition to the 2019 edition helps you navigate the reorganized Standard. (576 pages)

SOFT COVER	(9406S19)	122.00	115.00
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2016 edition is also available.

#### **NEW EDITION!**

#### NFPA 13D[®] 2019: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes

Automatic sprinklers help reduce the risk of dying in a home fire by about 80% while significantly protecting against property loss. The 2019 edition of NFPA 13D, Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, features up-to-date criteria addressing every aspect of sprinkler design, water supplies, equipment, and placement. Revisions in NFPA 13D address gaps in coverage and clarify requirements, so you can make homes safer from fire and related hazards. Installers and contractors need the revised 2019 edition NFPA 13D to address different types of construction, work with the latest technologies, and help reduce risks while maximizing efficiency. (68 pages)

SOFT COVER	(9430S19)	60.00	57.00
2016 edition is also available.			

#### **NEW EDITION!**

## NFPA 13R[®] 2019: Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies

Includes comprehensive requirements governing system installation, including water supply and system acceptance. Installers and contractors need the 2019 edition of NFPA 13R to complete jobs correctly, work with the latest technologies, and reduce risks while maximizing efficiency. This 2019 edition includes a reorganized and expanded Chapter 9, Water Supplies, with domestic demand tables moved from the annex to the body of the Standard. The Standard also has new images clarifying sprinkler location and clearances needed around fireplaces. (47 pages)

SOFT COVER	.(9431S19)	54.00	51.00
2016 edition is also available.			

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2018 IBC®	(1021S18)	25.00	20.00
2018 IRC [®]	(1121S18)	25.00	20.00
2018 IFC®	(1421S18)	23.00	18.95
2018 IPC [®]	(1221S18)	21.00	16.95
2018 IMC [®]	(1321S18)	21.00	16.95
2018 IFGC®	(1621S18)	21.00	16.95
2018 IECC [®]	(1821S18)	19.00	15.00

2015 and 2012 editions are also available.





#### A. Masonry Inspector's Workbook, Tenth Edition

This workbook compiles questions developed from material in the *Reinforced Concrete Masonry Construction Inspector's Handbook Tenth Edition* (see page 37), with an answer key cross-referenced to the material in the handbook. Those preparing for the ICC Structural Masonry Special Inspector certification examination will find this workbook to be an invaluable self-study guide or as a supplement to a classroom environment. (140 pages)

SOFT COVER	(9366S10)	29.95	26.95
PDF DOWNLOAD	(8950P840)	28.00	22.50

A-B. SAVE when you buy the Ha	ndbook and Work	book tog	ether!
SOFT COVER	(9086BN10)	68.95	62.00
PDF DOWNLOAD	(8950P841)	65.00	52.00

9th editions also available.

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## Study Companion Series Based on the 2018 International Codes®

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The Study Companions are organized into study sessions and include learning objectives, key points for review, code text, hundreds of illustrations and commentary applicable to the specific topic. Each study session includes a helpful quiz that allows the learner to measure their level of knowledge. Each Study Companion's answer key lists the code section referenced in each question for further information. 2015 and 2012 editions are also available.

#### A. 2018 International Building Code® Study Companion

Addresses fundamental requirements found throughout the 2018 IBC®, including occupancy classification, types of construction, fire protection systems, fire-resistance-rated construction, and means of egress.

- · 18 study sessions
- · 630 total study questions with answer key

Great resource for Certification exams: Commercial Building Inspector, Building Plans Examiner, Certified Building Official, Fire Inspector I and II, or Fire Plans Examiner

SOFT COVER	65.00	52.00
PDF DOWNLOAD(8950P832)	58.50	46.95
SOFT COVER/FLASH CARDS COMBO (4017BN18)	85.50	68.50

#### **B. 2018 International Residential Code® Study Companion**

Includes study sessions on the building, mechanical, plumbing, fuel gas and electrical provisions of the 2018 IRC® for one- and two-family dwellings. Particular emphasis is placed on the building planning requirements of Chapter 3 and the floor, wall, ceiling, and roof framing provisions.

- · 18 study sessions
- · 630 total study questions with answer key

Great resource for Certification exams: Residential Building Inspector, Residential Electrical Inspector, Residential Mechanical Inspector, Residential Plumbing Inspector, Residential Plans Examiner, or Property Maintenance and Housing Inspector

SOFT COVER(4117S18)	65.00	52.00
PDF DOWNLOAD(8950P838)	58.50	46.95
SOFT COVER/FLASH CARDS COMBO (4117BN18)	85.50	68.50

#### C. 2018 International Fire Code® Study Companion

Addresses occupancy classification, types of construction, fire protection systems, fire-resistance-rated construction, means of egress, and more.

- · 18 study sessions
- · 584 total study questions with answer key

Great resource for Certification exams: Fire Inspector I, Fire Inspector II, Fire Plans Examiner, or Certified Fire Marshal

SOFT COVER(4407S18)	60.00	48.50
PDF DOWNLOAD(8950P834)	54.00	43.75
SOFT COVER/FLASH CARDS COMBO (4407BN18)	78.95	64.00

#### D. 2018 International Plumbing Code® Study Companion

Addresses numerous topics of the 2018 IPC, including general regulations, fixtures, water supply and distribution, sanitary drainage, and vents.

- · 15 study sessions
- 375 total study questions with answer key

Great resource for Certification exams: Commercial Plumbing Inspector, or Plumbing Plans Examiner

SOFT COVER	57.00	45.75
PDF DOWNLOAD(8950P837)	51.00	41.00
SOFT COVER/FLASH CARDS COMBO (4217BN18)	74.00	59.25

#### E. 2018 International Mechanical Code® Study Companion

Covers all of the general topics found in the 2018 IMC[®], including equipment and appliance installation, exhaust and duct systems, combustion air, chimneys and vents, specific appliances, and refrigeration.

- · 15 study sessions
- · 375 total study questions with answer key

Great resource for Certification exams: Commercial Mechanical Inspector or Mechanical Plans Examiner

SOFT COVER	(4317S18)	57.00	45.75
PDF DOWNLOAD	8950P836)	51.00	41.00
SOFT COVER/FLASH CARDS COMBO (4	4317BN18)	74.00	59.25

#### F. 2018 International Fuel Gas Code® Study Companion

Practical learning assignments cover gas appliance and equipment installation, fuel gas piping systems, combustion and ventilation air, chimneys and vents, gaseous hydrogen systems and other general requirements related to fuel gas systems.

- 10 study sessions
- · 250 total study questions with answer key

Great resource for Certification exams: Commercial Mechanical Inspector, Commercial Plumbing Inspector, Mechanical Plans Examiner, Plumbing Plans Examiner

SOFT COVER	18) 53.00	42.50
PDF DOWNLOAD(8950P8	35) 48.00	38.25
SOFT COVER/FLASH CARDS COMBO (4607BN	18) 70.75	56.50

## **Study Tools**





















#### G. 2018 International Energy Conservation Code® Study Companion

Addresses both residential and commercial provisions. Particular emphasis is placed on energy design data, climate zones, calculations, exterior thermal envelope, fenestration, lighting, controls, ducts, HVAC systems, and total building performance.

- 10 study sessions
- 200 total study questions with answer key

Great resource for Certification exams: Commercial Energy Inspector, Commercial Energy Plans Examiner, Residential Energy Inspector/ Plans Examiner, or Green Building—Residential Examiner

SOFT COVER	18) 53.00	42.50
PDF DOWNLOAD	33) 48.00	38.25
SOFT COVER/FLASH CARDS COMBO (4807BN1	18) 68.50	54.50

#### H. 2018 Permit Technician Study Companion

Study sessions focus specifically on the permitting process, including applicable 2018 IBC® information on administration, occupancy groups and types of construction, as well as sign and zoning requirements of the 2018 IZC®. Legal Aspects of Code Administration and Basic Code Enforcement are also referenced.

- 14 study sessions
- 350 total study questions with answer key
- Great resource for the Permit Technician Certification exam

SOFT COVER	(4027S18)	53.00	42.50
PDF DOWNLOAD			

#### **NEW TO THE SERIES!**

#### I. 2018 Special Inspection Study Companion

This comprehensive self-study guide for the general requirements portion of the Special Inspector exams addresses special inspection, requirements for structural and fireresistant materials, and duties of the special inspector, building department and designers.

<ul> <li>13 study sessions</li> <li>300 total study questions with ans</li> </ul>	wer key		
SOFT COVER		50.95 45.95	
See page 39 for the Special Inspectic Combo.	on Manual/Stud	ly Comp	anion

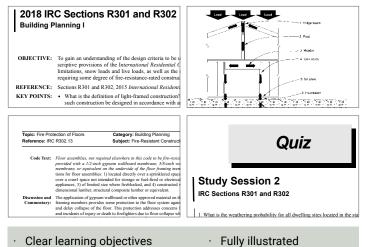
#### J. 2015 Accessibility Study Companion

Provides a comprehensive review of the accessibility provisions in the 2015 IBC® and ICC A117.1-2009. (500 pages)

18 study sessions

430 total study questions with answer key Great resource for the Accessibility Inspector/Plans Examiner Certification exam

SOFT COVER(412	23815) 59.75	47.75
PDF DOWNLOAD(8950		



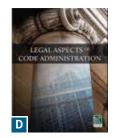
- Code commentary on each topic
- Helpful quizzes

## Administrative











#### A. Basic Code Enforcement, Second Edition

Introduces the reader to the basic concepts of building construction codes and the day-to-day operations of building safety departments. This fully illustrated and updated book is an essential resource for permit technicians and anyone beginning or advancing a career as an inspector, zoning officer, plans examiner, code official, code enforcement officer or other employee of a code enforcement department. It is also designed as a resource for those preparing to take the Permit Technician and Master Code Official certification exams. The easy-to-follow content begins with an overview of codes and their importance in protecting the health, safety and welfare of the public, and then progresses through the various functions of building and zoning departments including the typical details of the plan review, permitting and inspection process. More than 110 tables and figures illustrate the various topics. Quizzes in each chapter enable users to test their knowledge of the content. Appendix chapters provide the ICC code development procedures and the IBC plan review checklist.

Improved features of this updated Second Edition:

- · Reformatted and reorganized text to improve understanding
- Updated procedures and forms to reflect typical operations of modern building departments
- More than 40 new or revised figures and tables to clarify the concepts

Topics include:

- History, evolution, purpose and development of model construction codes
- · Building department operations and the duties of key personnel
- The adoption and implementation of building and zoning ordinances
- Plan reading, construction documents and the plan review process
- The permitting process, establishing fees and conducting inspections

(278 pages)

SOFT COVER	318) 49.95	39.95
PDF DOWNLOAD(8950P8	356) 47.50	38.00

## B. Human Resources Management for Public and Nonprofit Organizations, $4^{\mbox{\tiny TH}}$ Edition

This go-to reference for public and nonprofit human resources professionals has been significantly revised and updated to include information that reflects changes in the field due to the economic crisis, changes in federal employment laws, how shifting demographics affect human resources management, the increased use of technology in human resources management practices, how social media has become embedded in the workplace, and new approaches to HRM policy and practice. (528 pages)

SOFT COVER	(9619S)	99.95	89.95
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#### NEW! Applying the Codes to Cannabis Facilities

The legalization of recreational cannabis sales to the public in select states started a new industry. Many building departments are struggling with how to address this influx of business and the amount of permit requests for grow facilities, extraction facilities, dispensaries and other related uses. ICC and author Steve Thomas, CBO, developed this insightful guide to help the code official understand how the codes are applied to these facilities. The fullcolor guide discusses: types of facilities; code requirements for building, fire, mechanical, plumbing, energy and electrical systems; and facilities in single-family dwellings. It takes the reader through the process of how cannabis is grown, cultivated and processed to better understand how the codes are applied. It provides a foundation of how to enforce the codes and includes a checklist of items to consider when dealing with cannabis facilities. As the industry continues to evolve, this guide will provide the necessary background to evaluate the issues and then apply the codes appropriately. (132 pages)

SOFT COVER	(7058S)	29.95	23.95
PDF DOWNLOAD(89	50P871)	26.95	21.50

#### D. Legal Aspects of Code Administration, 2017 Edition

An excellent starting point for building officials who want to become better acquainted with the duties and legal responsibilities of enforcing the building code. It is also designed to serve as a refresher for those preparing to take the legal module of the ICC Certified Building Official or Certified Fire Marshal, or both, examinations. Building officials must understand their role in shaping, administering, and enforcing the building code. As agents of state and local governments, building officials must also understand the law and execute their duties in accordance with prevailing statutory and case law. This book will examine and discuss those duties and allow building officials to become successful at their jobs. This updated edition includes recent court decisions affecting building officials. (208 pages)

SOFT COVER	(1007S17)	44.95	35.95
PDF DOWNLOAD	(8950P788)	40.50	32.50

#### E. Building Community Resilience through Modern Model Building Codes

Addresses the urgent need for community resilience in the face of disasters and the most effective, efficient, and economic means to achieve it. The impacts of natural disasters can be mitigated with the right strategies and investing in mitigation before a disaster event occurs can significantly reduce losses at the time when the event does occur. Detailed information, graphics, photos, statistics, and losses related to various disasters are documented in this compelling publication, stressing the need for urgent action going forward. (50 pages)

SOFT COVER	(7037S)	15.00	12.00
PDF DOWNLOAD	(8027P)	14.00	11.00

## Administrative











#### **ONLINE BONUS ITEMS!**

#### A. Building Department Administration, 4TH Edition

This fourth edition builds on the vast improvements of the third edition to bring yet another valuable resource to code administrators everywhere. Each chapter has been revised and reformatted, updating this edition to being the most current state-of-the-art information for the needs of the 21ST century building safety industry. The compilation and organization of this unique publication has benefitted from the practical knowledge of more than 50 experts participating as authors, contributors, peer reviewers and editors, making it one of the most participatory publications in building safety. It is a comprehensive one-stop resource and is critical to the successful management and operation of building safety administration. (710 pages)

It contains outstanding topics and features such as:

- · Tables, graphics and forms
- · Information tips in highlighted boxes
- · Employee performance evaluation approaches and forms
- Green construction and sustainability
- · Disaster mitigation and building security
- · Technology and automation in plan review and code administration
- · Legal approaches, liability and court cases
- · Technology and automation availability and implementation
- Calculation of needed resources and staff levels for an effective department
- Effective multi-departmental plan review and permitting procedures

•	Leadership, supervision, and	Bonus Online
	customer relations	Features Include:
•	Training and certifications	<ul> <li>journal articles</li> </ul>
	Legacy model codes and ICC history	<ul> <li>book excerpts</li> </ul>
	International approaches	helpful links
	Records management	
•	Housing, property maintenance and the	public counter

HARD COVER(1013S4)	115.00	92.00
PDF DOWNLOAD	104.00	83.00

#### **NEW EDITION!**

#### **B. Budgeting Guide for Local Government, Fourth Edition**

Written with managers, budget directors, and students of the profession in mind, this updated edition offers a fresh and forwardlooking examination of local government budgeting. Building on the success of the past editions, Professors Bob Bland and Michael Overton forge into new arenas that shape the budgets, policies and processes managers use to craft spending decisions. The text provides practical guidance on how managers can effectively communicate budget information with their stakeholders and elevate the legitimacy of local government. (343 pages)

SOFT COVER	89.95	84.95
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nirt (	Navy Blue	e)	

Men's Polo Shirt ( · 100% polyester

Appar

- Nike Golf Dri-Fit
- Three-button placket

<ul> <li>Green ICC logo embroidered on left chest</li> </ul>	And the second second	
SMALL	9S) 51.00	46.00
MEDIUM	M) 51.00	46.00
LARGE	9L) 51.00	46.00
XLARGE	(L) 51.00	46.00
2XLARGE	(L) 51.00	46.00
3XLARGE(7979XXX	(L) 51.00	46.00

#### C. Travel Mug

<ul> <li>Holds 14 ounces</li> </ul>	
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· Features a locking lid

5			
TRAVEL MUG	(70500)	16 05	12 05
	. (19000)	10.95	13.95

#### D. Baseball Cap

- 100% cotton
   Structured mid profile
- Structured mid profile
   Green ICC logo
- · Green ICC logo

#### E. Backpack

The stylish backpack features a zippered main compartment with a padded laptop sleeve that holds up to a 15.6" computer and a dedicated iPad/tablet pocket. Two zippered front pockets are large enough for power banks, cables, pens and notecards. Additional features include a side pocket for your water bottle, top grab handle and adjustable padded backpack straps.

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## **Field Inspection**





#### A. Inspector Skills

The first book to address the "other" skills necessary for the people side of inspection, by ICC's Stephen A. Van Note. *Inspector Skills* raises awareness of the importance of "soft skills" and provides guidance for improving those skills. Soft skills are non-technical traits and behaviors that enhance an inspector's ability to interact with others and to successfully carry out job duties. When coupled with a solid technical knowledge of codes and construction practices, effective soft skills elicit cooperation, generate respect and credibility, and improve the image of inspectors and code safety departments.

Topics include:

- · Approaches to inspection
- · Getting along
- Customer service
- · Ethics
- · Effective communication
- And much more!

The book is ideal for inspectors in all disciplines and can also benefit students, permit technicians, plan reviewers and building officials. (166 pages)

SOFT COVER	(7104S)	24.95	19.95
PDF DOWNLOAD(	8950P585)	22.50	18.00

#### **B. Report Writing for Code Inspectors**

Report writing skills are essential to success in your code enforcement career. Notices of violation, letters, and reports are public documents that may be read by supervisors, attorneys, judges, citizens, design professionals, contractors, and reporters. Quality inspection reports and notices of violation help ensure code compliance, impress superiors, and win respect from colleagues. They facilitate repairs, reinforce requirements for safe operations, and ensure unsafe practices are discontinued. *Report Writing for Code Inspectors* covers: basic principles for organizing and writing reports, bullet style, punctuation, capitalization, sentence structure, English usage, and the specialized vocabulary you need for your reports. Sample reports are included, along with a pre-test, posttest, practice exercises, and complete answer key. (232 pages)

SOFT COVER	(9658S)	22.95	19.95
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#### **NEW EDITION!**

**C. Fire Inspector's Guide: Based On 2018 International Fire Code** Your ideal resource for effective, accurate, consistent, and complete fire inspections. The Inspector's Guide provides a comprehensive review of the 2018 IFC organized in a manner consistent with the inspection sequence for easy use on site. It is developed to increase inspection effectiveness and consistency by focusing on the most important provisions. This pocket-sized reference with spiral binding and durable laminated cover is ideal for everyday use. (205 pages)

SOFT COVER	(4401S18)	) 23.95	19.00
PDF DOWNLOAD	8748P18	) 21.50	17.25

#### NEW!

#### D. Recommended Practices for Remote Virtual Inspections (RVI)

As technology continues to transform the building and construction industries, successful remote virtual inspections are needed now more than ever. This helpful guide from ICC is the most complete source of information on remote inspections. It is a comprehensive tool for local jurisdictions and the building industry alike that desire to implement a remote inspection program. This publication covers the RVI process, inspection scheduling, preparation, what the owner/contractor should expect, training and communications, and recording and maintaining records.

SOFT COVER......(7072S1) 15.00 12.00

#### FROM MBNA AND ICC!

#### E. Guide for Inspecting Metal Building Systems

A useful resource for when inspecting a metal building project, this guide is intended for use by individuals responsible for contracting, performing, and reporting the various inspection tasks related to the construction of a metal building project. The scope primarily focuses on inspecting newly constructed metal building system including: primary framing, secondary framing, and metal roof and wall cladding. Additional materials commonly included on the building envelope, such as windows, doors, skylights, and insulation materials, are briefly addressed. (86 pages)

SOFT COVER	(7705S18)	60.00	55.00
PDF DOWNLOAD	.(8950P852)	60.00	55.00
SOFT + PDF COMBO	(7705SP18)	81.00	73.00



#### **Training from the ICC Learning Center**

Seminars based on this series are available from ICC. Schedule yours today!

learn@iccsafe.org | 1-888-422-7233 ext. 33821

# **Field Inspection**





# Code Check: Illustrated Guides to Building Codes

- Field-tested flip-page format
- $\cdot$   $\,$  Reduces violations and call-backs
- Hundreds of illustrations
- $\cdot$   $\,$  Fully researched and accurate
- Compiled by certified inspectors

# **NEW EDITION!**

# F. Code Check: An Illustrated Guide to Building a Safe House, 9th Edition

Taunton's flagship flip-chart book is based on the 2018 model codes, including the IRC, UPC, & UMC, and the 2017 NEC. It contains 81 illustrations that provide graphic explanations of code issues and 32 tables that place essential information at your fingertips. Major changes are highlighted in the book for all four major disciplines-building, plumbing, mechanical, and electrical. Perfect for field use or in the office.

SOFT COVER	(9101S9)	21.95	17.95
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# G. Code Check Building, 4TH Edition

Professional builders, remodelers, home inspectors, and building inspectors find this handy, trustworthy reference an essential tool for building the safest structures. Cross-referenced to the 2015 IRC, this invaluable quick-reference guide provides the essential need-to-know information in plain language with 85 drawings to ensure compliance with codes at each stage of construction, ensuring that all jobs meet the highest safety standards. Detailed tables and illustrations throughout clarify code provisions and numerous changes in the latest edition of codes. For even greater transparency, specific code changes are highlighted throughout the text and summarized at the end of the book. (32 pages)

SOFT COVER	(9189S4)	21.95	17.95
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# H. Code Check: Plumbing & Mechanical 5TH edition

The book is based primarily on the 2015 IRC and 2015 UPC/UMC codes.

- · 137 illustrations provide visual explanation of code rules
- 50 tables aid in code application
- $\cdot$   $\,$  Summary of code changes from the previous editions
- $\cdot~$  Expanded gas venting and CSST sizing section
- Signature flip-chart format for easy reference
- $\cdot\;$  Durable, laminated pages are spill-proof for field use
- Includes latest rules on ventilation and exhaust systems to maintain indoor air quality (48 pages)





# I. Code Check Electrical, 8th Edition

Completely updated to the 2017 NEC®, contains 23 tables and 66 drawings, and is cross-referenced to the 2015 IRC®. It is an ideal companion for field inspections, plan review, NEC® study, and for helping to avoid violations on construction projects. (32 pages)

# **Code Check Commercial**

The Code Check field guide covers code issues commonly encountered in the construction of retail stores, offices, warehouses, schools, service stations, hotels, restaurants, apartments and condominiums. It uses clear language and 110 informative diagrams, and is based on the 2009 International Codes, Uniform Codes and the 2008 NEC®. (46 pages)

# Residential Building Inspection: A Step-by-Step Guide

A "how-to" resource by Mike Brinkman that can benefit building department personnel, builders, contractors, project managers, home owners and others involved in residential building construction.

The full-color guide will help you:

- improve consistency
- establish departmental procedures
- create a strong training program

The procedures, inspection items and approaches are generic and applicable everywhere regardless of the code or edition adopted. Photos and graphics provide an invaluable visual presentation to enhance your understanding. (158 pages)

SOFT COVER(711	2S17) 3	39.95	31.95
PDF DOWNLOAD(8950	P790) 3	35.95	28.75

### NEW EDITION! California Fire Inspection Guide: Based on the 2019 California Codes

Published by the California Fire Prevention Officers Association, this is a handy pocket-sized guide for both fire prevention inspectors and engine company members. Convenient booklet format organized by occupancy allows the user to look up exiting, fire extinguisher, housekeeping, electrical questions, and more in the field. Based on the 2019 California



Codes and Title 19 requirements this easy to use reference is a must have for anyone conducting basic fire prevention inspections. (122 pages)

SOFT	COVER	.(4409S19)	20.00	18.00
5011	00 V L N	.(++05015)	20.00	10.00



# **Special Inspection**





# NEW!

# A. 2018 Special Inspection Study Companion

This comprehensive self-study guide for the general requirements portion of the Special Inspector exams addresses special inspection, requirements for structural and fire-resistant materials, and duties of the special inspector, building department and designers. Its 13 study sessions provide practical learning assignments and contain specific learning objectives, applicable code text and commentary, and key points of study. Practice quizzes with 300 total questions are included with an answer key that indicates the referenced section in the code, standard or *Special Inspection Manual*. (300 pages)

SOFT COVER	(4032S18)	50.95	40.75
PDF DOWNLOAD			

# **B. Special Inspection Manual: 2018 Edition**

In extreme natural events such as earthquakes and hurricanes, the most common contributing factor to significant structural damage and building failure is construction that fails to comply with codes, standards and design documents. Having specialized oversight and increasing inspection frequency, duration and detail during the construction process help mitigate construction issues.

Authored by ICC's Sandra Hyde, *Special Inspection Manual* gives detail to oversight and increased inspection requirements. The manual contains the requirements involving special inspection within the *International Building Code*, descriptions of the required special inspections, and information on creating a special inspection program. It supports preparation for special inspection certification exams and aids building departments in their creation of procedures and forms to run a special inspection overview program.

The guidance in the manual is based on recommended practices and the consensus of building officials, design professionals, and inspection and testing agencies. Duties and responsibilities of the special inspector, building official, project owner, engineer or architect of record and contractor are defined. This manual is also helpful for design professionals writing statements of special inspections. (326 pages)

SOFT COVER	(4019S18)	54.95	43.95
PDF DOWNLOAD	(8950P858)	49.50	39.50

### 





# FROM SSTC AND ICC!

# C. Structural Steel Inspector's Workbook, 2014 Edition

Steel Structures Technology Center and ICC have co-published this helpful workbook by Robert Shaw, P.E., based on the requirements of the IBC, the standards of the AISC, AWS, Research Council on Structural Connections, Steel Joist Institute, and Steel Deck Institute, and inspection resources from ICC. The workbook provides practical exercises to learn about the various codes and standards governing steel building construction. It is designed in an independent-study format, enabling readers to progress at their own pace with simple, straightforward multiple-choice questions to test their knowledge. The workbook is an ideal resource for those working to attain ICC Certification for Structural Steel and Bolting Inspection, or Structural Welding Inspection. (156 pages)

SOFT COVER	(9314S14	) 44.00	39.00
PDF DOWNLOAD	(8950P665	) 40.00	32.00

# D. Concrete Manual: 2015 IBC and ACI 318-14

Author Gerald Neville, P.E., provides the guidance and information inspectors and other construction professionals need to become more proficient in concrete field practices and inspection.

The Concrete Manual will:

- · Introduce concrete and explain why it behaves as it does.
- · Explain conventional concrete construction procedures.
- Cover special concrete technologies such as Autoclaved, self-consolidating and pervious.
- · Discuss control and inspection procedures.
- · Explore statistical quality control methods and their application.
- · Detail proper field testing procedures.
- · Detail proper placement of reinforcement.

A Resource Reference section includes a list of the concrete industry and technical organizations to contact for additional information. (576 pages)

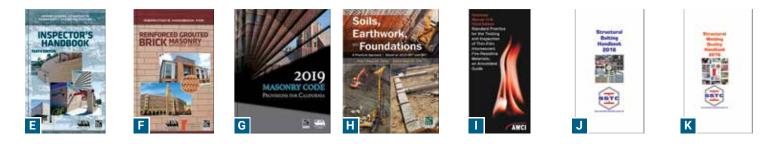
HARD COVER	(9090S15)	91.00	75.00
PDF DOWNLOAD	(8853P15)	81.95	65.50

# Manual for Quality Control for Plants and Production of Structural Precast Concrete Products, 4TH edition

Contains information in a convenient format with standards and commentary printed side-by-side to provide convenient explanation, discussion and amplification of the standards. These standards and the accompanying commentary will serve as a strong foundation for a plant's quality system for the manufacturing of structural precast concrete products. It comes with a custom loose-leaf binder, tabs for easy reference and a postcard for registering your book for future updates. A must-have for specifiers, producers, testing labs, inspection consultants, teachers, designers and quality technicians. (340 pages)

LOOSE LEAF......(9133S00) 85.00 **76.00** 

# **Special Inspection**



# E. Reinforced Concrete Masonry Construction Inspector's Handbook, Tenth Edition

Incorporates requirements contained in the 2018 IBC, *Building Code Requirements for Masonry Structures (TMS 402-16) and Specification for Masonry Structures (TMS 602-16).* Masonry quality control provisions include: materials, installation, testing methods, special provisions. This book is also used as a reference for ICC's Structural Masonry Special Inspection Certification Examination. (432 pages)

SOFT COVER	(9086S10)	44.95	39.95
PDF DOWNLOAD	(8086P10)	42.00	33.50

# Masonry Inspector's Workbook, Tenth Edition

This workbook compiles questions developed from material in the *Reinforced Concrete Masonry Construction Inspector's Handbook Tenth Edition*, with an answer key cross-referenced to the material in the handbook. Those preparing for the ICC Structural Masonry Special Inspector certification examination will find this workbook to be an invaluable self-study guide or as a supplement to a classroom environment. (140 pages)

SOFT COVER	(9366S10)	29.95	26.95
PDF DOWNLOAD			22.50

# SAVE when you buy the Handbook and Workbook together! Masonry Handbook and Workbook Combo

SOFT COVER	(9086BN10)	68.95	62.00
PDF DOWNLOAD	(8950P841)	65.00	52.00

### **NEW EDITION!**

# F. Inspector's Handbook for Reinforced Grouted Brick Masonry, 16th Edition

Incorporates requirements contained in the 2018 IBC and TMS 402/602-16 Building Code Requirements and Specification for Masonry Structures. Masonry Quality Control provisions include: Materials, Installation, Testing Methods, and Special Provisions. This handbook will serve as a guide for the construction and inspection of reinforced grouted brick masonry. It is particularly applicable for those areas that have provisions for earthquake safety in their building codes. (512 pages)

SOFT COVER	(9028S16)	39.95	35.95
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# **NEW EDITION!**

# G. 2019 Masonry Code Provisions for California

### H. Soils, Earthwork, and Foundations: A Practical Approach, Based on 2015 IRC and IBC

Authors Kirby T. Meyer and Dean Reed bridge the worlds of geotechnical engineering and foundation design, and construction activities and inspections dealing with soil conditions and building foundations. The book provides illustrations to assist in the understanding of the principles involved in foundations, guidelines for when to call on a geotechnical or foundation design engineer, and tips for effectively communicating with geotechnical and structural professionals. Review questions are included that will assist those studying for the Soils Special Inspection Certification Exam. References to the 2015 IRC and IBC are provided throughout. (300 pages)

SOFT COVER	(4036S15)	56.95	44.95
PDF DOWNLOAD	(8950P695)	51.00	40.50

# Technical Manual 12-A, Fourth Edition

This pocket-size publication provides standard guidelines for inspecting and testing sprayed fireproofing. Updated to include testing criteria for higher bond strength materials and thickness test procedures for pipe columns, the manual reflects ASTM, UL and model code requirements.

SOFT COVER	(9034S4)	29.00	25.00
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# I. Technical Manual 12-B

Standard Practice for the Testing and Inspection of Field Applied Thin Film Intumescent Fire-Resistive Materials; an Annotated Guide.

# J. Structural Bolting Handbook, 2016

This Handbook has included information using both: 2010 AISC Specification with 2014 RCSC Specification provisions, and 2016 AISC Specification provisions with appropriate updated information. This pocket-sized book is a must for fabricators and erectors, ironworkers and fitters, inspectors, engineers and detailers. (144 pages)

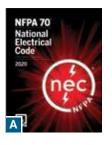
SOFT COVER......(9140S16) 22.00 **20.00** 

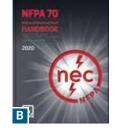
# K. Structural Welding Quality Handbook, 2016

This pocket-sized reference assists welders, supervisors, inspectors, engineers, and others involved in the design, fabrication, erection and inspection of steel-framed buildings and structures in achieving quality workmanship and inspection in their welding operations. (128 pages)

SOFT COVER(	9050S16	) 22.00	20.00
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# **Electrical**







# A. NFPA 70[®] 2020: National Electrical Code[®] (NEC[®]) The electrical code designated for use with the I-Codes

This revised and expanded edition features state-of-the-art information for safe electrical practices for public and private buildings, homes and structures, outdoor yards and lots, utility equipment, installations that connect to the power grid, and consumer-owned power generation systems and equipment. Content has been added, edited, and reorganized to address safety for workers, energy systems and electric vehicles, limited energy, and communication systems.

SOFT COVER	(5000S20)	115.00	106.00
LOOSE LEAF			
SOFT COVER + TABS	(5000ST20)	128.00	117.00
LOOSE LEAF + TABS	(5000LT20)	138.00	127.00
2017 edition is also available.	, ,		

# **NEW EDITION!**

# B. NFPA 70, National Electrical Code (NEC) Handbook, 2020 Edition

Revised and extensively updated, the full-color 2020 edition NEC handbook is a vital resource for electrical design and installation in residential, commercial, and industrial settings. The Handbook provides detailed explanations on how to implement requirements along with the reasoning behind major changes that could affect your designs and installations.

Features:

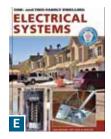
- · The complete 2020 NEC text for instant and easy reference
- · Integrated commentary positioned in-line with NEC text
- A new Summary of Technical Changes table that shows you where and why code changes occurred
- · A cross-reference feature to help you quickly find related information in other articles
- 800 full-color photos, tables, and illustrations such as schematics, floor plans, and cross-sectional graphics
- en Informative Annexes, including Informative Annex C, Conduit and Tubing Fill Tables, and Informative Annex D Examples

The NEC Handbook provides a narrative interpretation featuring expert commentary and informative exhibits that help you increase code comprehension and explain NEC requirements to clients and others who might not have professional electrical training. (1,388 pages)

HARD COVER	(5003S20)	210.00	199.00
HARD COVER + TABS			
2017 edition is also available.			







# C. 2020 National Electrical Code® Tabs

Self-adnesive tabs for the 2020 NEC	or NEC® Hand	DOOK.	
SOFT COVER	(5000TS20)	20.00	17.50
2017 edition is also available.			

2017 californio aloo ava

# NEW EDITION!

# D. Analysis of Changes, 2020 NEC

Learn the most essential changes to the 2020 NFPA 70 NEC[®]. Written by IAEI's industry experts, this comprehensive book is a must-have resource highlights and explains revisions to residential, commercial, and industrial design and installation requirements and covers four new code articles and significant changes to a variety of requirements regarding GFCI protection, grounding conductors, lighting load calculations, surge protection and outdoor emergency disconnects for dwelling units, circuit current rating for switchboards, switchgear, and panelboards, grounding and bonding of HVAC equipment on rooftops, areas covered and not covered in health care facilities, manufactured buildings and relocatable structures, GFPE and GFCI protection at marinas, boatyards and docking facilities, splash pads, and much more. 296 figures and images make the new articles and changes easy to understand. (624 pages)

SOFT	COVER	l	 	 	 	 	(500	5S20	))	83.	00	78	.00

2017 edition is also available.

# E. One & Two Family Dwelling Electrical Systems, 10th Edition

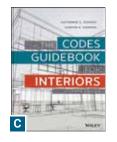
Published by IAEI, explains the design, installation and inspection of electrical systems in new and existing one- and two-family dwellings based on the 2017 NEC® and 2018 IRC. The text covers the subject in detail and meticulously updates the material as it pertains to the appropriate residential sections of the 2017 NEC and the 2018 IRC. (600 pages)

SOFT COVER	.(1108S10)	78.00	70.00
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# Architecture/Accessibility













# 500+ COLOR ILLUSTRATIONS!

### A. 2018 International Building Code Illustrated Handbook

Thoroughly updated to address the provisions of the 2018 IBC, this fully-illustrated guide makes it easy to understand and apply the most critical code provisions. Covering both fire- and life-safety and structural provisions, this practical resource contains hundreds of user-friendly diagrams designed to clarify the application and intent of the IBC[®]. The Handbook provides all the information needed to get construction jobs done right and achieve compliance. (1,008 pages)

HARD COVER	(4000S18)	152.00	119.00
PDF DOWNLOAD			
0045 100 0 1 1			

2015 edition is also available.

# **B. Building Codes Illustrated: A Guide to Understanding the** 2018 International Building Code, Sixth Edition

This guide pulls out the portions of the building code most relevant for the architect and provides an easy-to-understand interpretation in both words and illustrations. Uniquely marrying the graphic skills of Francis D.K Ching with the code expertise of Steven Winkel, FAIA, the sixth edition covers such information as: use and occupancy; building heights and areas; types of construction; fire-resistive construction; interior finishes; means of egress; accessibility; energy efficiency; roof assemblies; structural provisions; special inspections and tests; soils and foundations; building materials and systems; and more. (480 pages)

# C. The Codes Guidebook for Interiors, Seventh Edition

Devoted exclusively to code requirements applicable to interior designers, this guide features jargon-free explanations of all the codes and standards relevant to designers and architects, including performance codes, building and finish standards, energy codes, and ADA standards. In addition, dozens of examples are greatly enhanced with a set of illustrations, including floor plans that clearly show how codes apply to real-world project. Authors Katherine E. Kennon and Sharon Koomen Harmon address a wide-variety of building and project types (large and small) and they offer information on single family homes and historical and existing buildings. (576 pages)

HARD COVER	(9506S7)	95.00	85.50
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# 275 COLOR ILLUSTRATIONS!

# D. International Building Codes and Guidelines for Interior Design

Author Lisa M. Tucker introduces you to the building code and other regulatory guidelines, and uses illustrated case studies to show you how to apply design solutions. The book includes a description of the permitting process, document submission, and compliance and occupancy of the built project. The second part of the book is comprised of case studies illustrating all of the major codes areas. These case studies include REVIT rendered illustrations. (248 pages)

SOFT COVER	(9902S18)	85.00	72.50
	(11020.0)	00.00	

# ICC A117.1: Standard for Accessible and Usable Buildings and Facilities

Since 1961, the A117.1 Standard has been at the forefront of creating a built environment open to everyone. The specifications in this standard enable people with physical disabilities to independently access and use sites, facilities, buildings and elements.

### E. ICC A117.1-2017 (200 pages)

SOFT COVER	(9033S17)	49.95	39.95
PDF DOWNLOAD	(8722P17)	44.95	35.95
SOFT COVER + TURBO TABS	(9033ST17)	62.50	50.00
SOFT COVER + SIGNIFICANT CHANG	ES (7811BN17)	75.50	60.50
ICC A117.1-2009 (120 pages)			
SOFT COVER	(9033S09)	48.95	39.00
PDF DOWNLOAD	(8722P09)	44.00	35.00

### **COLOR ILLUSTRATIONS!**

# F. Significant Changes to the ICC A117.1 Accessibility Standard, 2017 Edition

Authored by ICC code expert Jay Woodward, this one-of-a-kind reference is an indispensable resource that will familiarize building officials, plans examiners, inspectors, and design professionals with the many important accessibility-related changes in the A117.1 Standard. (188 pages)

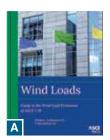
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PDF DOWNLOAD	(8950P783)	31.00	25.00

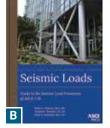
# ICC A117.1 Standard and Commentary (Accessible and Usable Buildings and Facilities)

This publication's easy-to-use format includes the full text of the ICC A117.1 standard, including tables and figures, followed by the corresponding commentary for each section. The commentary and accompanying figures explain the background and intent of the requirements and suggest the most effective method of application. Potential consequences of not following the provisions of the standard are discussed. A must-have reference for architects, designers, facility professionals, building owners, and code officials who want a better understanding of ICC A117.1.

# C. 2017 EDITION

SOFT COVER	(9033C17)	67.95	54.95
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2009 EDITION			
SOFT COVER	(9033C09)	67.95	54.95
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# NEW!

# A. Wind Loads: Guide to the Wind Load Provisions of ASCE 7-16

A comprehensive overview of the wind load provisions in ASCE/SEI 7-16. In this helpful guide, authors Coulbourne and Stafford focus on the provisions that affect the planning, design, and construction of buildings for residential and commercial purposes. It includes 14 chapters with 10 worked examples of real-life design problems applying the appropriate use of analytical and simplified procedures for calculating wind loads for a variety of common structure types, as well as answers to more than 30 FAQs grouped by topic. This book is an essential reference for practicing structural engineers, offering the most authoritative and in-depth interpretation of the wind loads section of ASCE/SEI 7-16. (180 pages)

SOFT COVER	.(9249S16)	85.00	65.00
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# NEW!

### B. Seismic Loads: Guide to the Seismic Load Provisions of ASCE 7-16

An essential companion to ASCE/SEI 7-16, Seismic Loads provides clear, authoritative explanations of the seismic design provisions in ASCE/SEI 7-16. Authors Charney, Heausler, and Marshall present numerous detailed examples within the main 30 chapters of Seismic Loads. The examples guide structural engineers through the process of assessing conditions, including identifying occupancy, importance, and seismic design categories; determining the seismic requirements; and selecting a structural system. Topics include building irregularities, structural analysis, lateral system forces, load factors, drift, and P-delta effects. (396 pages)

### C. Wind Design Manual: Based on the 2018 IBC[®] and ASCE/ SEI 7-16, Examples for Wind Forces on Buildings and Solar Photovoltaic Systems

Offers examples on wind force design that illustrate the practical requirements of provisions in ASCE/SEI 7-16. Practicing structural engineers, trained designers, building department engineers, other plan review agencies, professors and students, can all learn from these examples of code-compliant designs engineered to achieve good performance under wind loading. The publication draws on the expertise of invited authors from various parts of the U.S. and is intended for nationwide use, with example problems that apply to a variety of geographic areas. A wide range of topics is covered:

- · General topics (4 examples)
- Special topics (2 examples)
- Buildings (3 examples)
- Solar Photovoltaic systems (7 examples)

SOFT COVER	(9000S18)	95.00	82.50
PDF DOWNLOAD	(8026P18)	85.50	74.50





# 100+ WORKED-OUT EXAMPLES!

### D. Seismic and Wind Forces: Structural Design Examples, 5TH Edition Updated to 2018 IBC[®] and ASCE/SEI 7-16

Thoroughly updated by Alan Williams to the 2018 IBC, ASCE/ SEI 7-16, ACI 318-14, NDS-2018, AISC 341-16, AISC 358-16, AISC 360-16, and TMS 402-16. In each chapter, sections of the code are presented and explained in a logical and simple manner, followed by illustrative examples. Each example concentrates on a specific section of the code and provides a clear, concise interpretation of the code requirement. The text is organized into six chapters that correspond to the primary structural design sections of the code: seismic design, design for wind loads, seismic design of steel structures, seismic design of concrete structures, seismic design of wood structures and seismic design masonry structures.

More than 100 completely worked-out design examples are included to clearly illustrate proper application of the code requirements. Problems are solved in a straightforward step-bystep fashion with extensive use of illustrations and load diagrams. *Seismic and Wind Forces* is an excellent resource for practicing civil and structural engineers, engineers studying for licensing exams, structural plan check engineers, civil engineering students, architects, code officials, plan reviewers, and others who need to know how to properly apply seismic and wind loads based on the IBC and the referenced structural standards. (608 pages)

SOFT COVER	(9185S5)	76.00	61.00
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# **INCLUDES SOLUTIONS MANUAL!**

# E. Structural Load Determination: 2018 IBC and ASCE/SEI 7-16

### NEW!

# F. Rain, Snow, and Ice Loads: Time-Saving Methods Using the 2018 IBC and ASCE/SEI 7-16

This practical visual guide by David A. Fanella provides engineers with simplified, step-by-step procedures to determine each load. Specific load types illustrated include ground snow, flat and sloped roof snow, drift loads, sliding snow, ponding instability, ice loads due to freezing rain, wind on ice-covered structures, and more. Realworld examples for each applicable code section are included, plus figures and flowcharts to help explain each procedure. (176 pages)

SOFT COVER	.(9020S18	) 55.00	48.00
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### **NEW EDITIONS!**

### A-D. 2018 IBC[®] SEAOC Structural/Seismic Design Manuals

This updated series provides a step-by-step approach to applying the structural provisions of the 2018 IBC® and referenced standards. Each volume is an excellent reference and study guide for the NCEES Structural Exam, and an invaluable resource for civil and structural engineers, architects, academics, and students. Available in print and new eBook format.

### A. Volume 1: Code Application Examples

Covers determination of seismic irregularities, combinations of structural systems, determination of drift, support of discontinuous systems and analysis of seismic forces applied to equipment, nonstructural elements, and nonbuilding structures. (232 pages)

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# B. Volume 2: Examples for Light-Frame, Tilt-up, and Masonry Buildings

Discusses diaphragm flexibility, center of mass, collectors and chords, deflection, and anchorage are discussed through examples. In- and out-of-plane seismic loads are analyzed. Volume 2 details sample structures of wood, cold-formed steel, tilt-up concrete, and masonry. (380 pages)

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EBOOK	) 71.00	60.00





### C. Volume 3: Examples for Concrete Buildings

Analyzes sample structures containing concrete moment frames or shear walls, diaphragm, and pile design. (266 pages)

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EBOOK	(8950DG886)	60.00	51.00

### **D. Volume 4: Examples for Steel-Framed Buildings**

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SOFT COVER	(9011S187)	340.00	272.00
EBOOK	(8950DG893)	306.00	245.00
2015 editions are also available.			



### Significant Changes to the Minimum Design Loads and Associated Criteria for Buildings and Other Structures (ASCE/SEI 7-16)

This handy volume translates the most noteworthy changes to the ASCE 7-16 load provisions into a form quickly accessible to structural engineers, architects, contractors, building officials and inspectors, and allied professionals. Topics include:

- · General requirements and load combinations
- $\cdot$  Dead and live loads
- · Snow, rain, and ice loads
- Earthquake loads
- · Wind loads
- · New tsunami guidelines

In a user-friendly format, this volume describes 100+ changes accompanied by a detailed analysis, and includes photographs, diagrams, and other visual aids. (368 pages)

SOFT COVER	.(9002S161)	125.00	93.75
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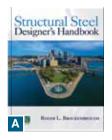


### Snow Loads: Guide to the Snow Load Provisions of ASCE 7-16

Supplies detailed, authoritative explanations of the snow load provisions contained in ASCE/ SEI 7-16. With clear, concise language, author Michael O'Rourke, Ph. D., P.E., 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 discusses flat roof loads, sloped roof loads, partial loads, and all types of

conventional drift loading. This guide 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.

SOFT COVER	.(9207S16)	75.00	67.50
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# **NEW EDITION!**

### A. Structural Steel Designer's Handbook, Sixth Edition

Thoroughly revised for the latest advances, this comprehensive resource contains information essential to the design of steel structures. The book lays out the fundamentals of structural steel fabrication and erection followed by detailed design methods for steel beams, columns, tension components, roof systems, and connections. Design examples throughout the book clearly demonstrate how to apply complex code provisions in the field. You will get clear explanations of AISC 360-16, the AASHTO Standard Specification for Structural Steel Bridges, the AISI Cold-Formed Steel Standards, ASCE 7-16, and the 2018 IBC. (816 pages)

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# NEW!

### B. Examples: Structural Wood Design Examples, 2015/2018

Contains 20+ design examples and complete solutions for wood member design, connections, and shear walls. Solutions have been developed based on the 2015 and 2018 NDS for Wood Construction, and the 2015 SDPWS, as appropriate. References are also made to the 2015 and 2018 Wood Frame Construction Manual (WFCM). The book is intended to aid instruction in structural design of wood structures using both ASD and LRFD.

SOFT COVER	(9604S18)	45.00	36.00
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Buy the 2015 NDS and examples tog SOFT COVER			154.00

### C. CodeMaster Series

### for the 2018 IBC and referenced standards

Laminated references packed with valuable information such as easy-to-follow multi-step procedures and helpful illustrations.

Strength Design for Masonry (2018 IBC and TMS 4 8 PAGES	19.00	15.20
Allowable Stress Design for Masonry (2018 IBC) 8 PAGES	19.00	15.20
Structural Wood Design ASD/LRFD (2018 IBC, ASCE 7- 6 PAGES	1 <b>6, 2018</b> 17.00	NDS) 13.60
Flood Resistant Design (2018 IBC, 2018 IRC, ASCE 7-16, 8 PAGES		14) 15.20
Seismic Design (2018 IBC and ASCE 7-16) 6 PAGES	17.00	13.60
Seismic Design Category (2018 IBC, ASCE 7-16) 2 PAGES	7.00	5.60
Design for Snow Loads (2021 and 2018 IBC, ASCE 6 PAGES	7 <b>-16)</b> 16.00	12.80

# D. Design of Wood Structures ASD/LRFD, Eighth Edition

Fully updated to cover the latest techniques and standards, authors Donald Breyer, Kelly Cobeen and Zeno Martin lead you through the complete design of a wood structure following the same sequence used in the actual design/construction process. Detailed equations, clear illustrations, and practical design examples are featured throughout the text. This up-to-date edition conforms to both the 2018 IBC and 2018 NDS. This edition covers:

- · Wood buildings and design criteria
- Design loads
- · Behavior of structures under loads and forces
- Properties of wood and lumber grades
- · Structural glued laminated timber
- · Beam design and wood structural panels
- Diaphragms and shearwalls
- · Diaphragm-to-shearwall anchorage
- · Requirements for seismically irregular structures
- Residential buildings with wood light frames

### **Masonry Structural Design, Second Edition**

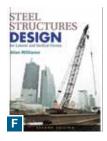
This fully revised resource covers the design of masonry structures using the 2015 IBC, ASCE 7-10, and TMS 402-13 and TMS 602-13. The book emphasizes the strength design of masonry and includes allowable-stress provisions. Chapter-long case studies featuring a low-rise building with reinforced concrete masonry and a four-story building with clay masonry illustrate the topics presented. (528 pages)

# Earthquake Engineering: Theory and Implementation with the 2015 IBC, Third Edition

Author Nazzal Armouti offers cost-effective earthquake engineering methods and practical instructions. The text teaches how to analyze the behavior of structures under seismic excitation and details design and construction of earthquake resistant steel and reinforced concrete buildings, bridges, and isolated systems. All applicable requirements are fully explained including the 2015 IBC and the latest ACI, AISC, and AASHTO codes and regulations. (544 pages)

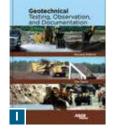
# E. Reinforced Concrete Structures Analysis and Design, Second Edition

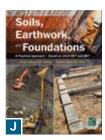
This second edition by David A. Fanella references the 2014 ACI 318 structural concrete code and the 2015 IBC. This practical resource offers concise explanations of reinforced concrete design principles and teaches safe and cost-effective engineering and construction techniques. Examples, procedures, and flowcharts illustrate compliance with each provision. SI units are now included throughout all of the chapters. (976 pages)











# F. Steel Structures Design for Lateral and Vertical Forces, Second Edition

Author Alan Williams covers the fundamentals of behavior and the latest design methods for a variety of steel structures and loads, updated to the 2015 IBC. This comprehensive resource includes information on AISC codes, expanded coverage of seismic loads, and new design methods for multi-story frames, gable frames, and grid frameworks. End-of-chapter problems and solutions apply each concept to real-world design situations and show how code requirements are applied to both the ASD and LRFD methods. (688 pages)

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# G. Reinforced Masonry Engineering Handbook: Clay and Concrete Masonry, 8™ Edition

Based on the requirements of the 2015 IBC, this time-saving book from Masonry Institute of America eliminates repetitious and routine calculations required for masonry design. Code requirements, hundreds of drawings and sound engineering practice are included to assist the engineer and designer in understanding masonry design. Detailed explanations and applications of allowable stress design and strength design procedures are presented. More than 80 step-by step examples are provided. (772 pages)

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# FROM MBMA AND ICC!

# H. Seismic Design Guide for Metal Building Systems

A comprehensive guide based on the 2015 IBC, ASCE/SEI 7-10, and AISC 360-10/341-10 (with notes on the 2018 IBC, ASCE/SEI 7-16, and AISC 360-16/341-16). This guide provides a practical and comprehensive resource that will help engineers, building officials and plan checkers ensure that designs are compliant with the requirements of the 2015 IBC. Four practical design examples are provided in narrative form to illustrate acceptable approaches dealing with the most common seismic design issues encountered with metal building systems. (230 pages)

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The ATC-20 Set contains:

· ATC-2	20 Report	(152	pages)
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# ATC-20-1 Field Manual: Postearthquake Safety Evaluation of Building

The pocket-sized companion to the ATC-20 Report summarizes the postearthquake safety evaluation procedures in brief concise format designed for ease of use in the field. (159 pages)

# PTI M10.2-17: Specification for Unbonded Single Strand Tendons

Presents performance specifications for single-strand unbonded post-tensioning tendons in prestressed concrete structures for both normal and aggressive (corrosive) environments. A commentary to each section is also provided. Revisions include clearer guidelines on defining aggressive environments, acceptance criteria for prestressing strand, and general enhanced provisions for corrosion protection of unbonded tendons. (24 pages)

# I. Geotechnical Testing, Observation, and Documentation, 2nd Edition

This indispensable, in-depth field manual **by Tim Davis** will help you understand common laboratory and field tests, classify soil accurately, interpret project recommendations, and document the entire construction monitoring process. This expanded edition includes: sample test questions with answer key; comprehensive case studies; a quick reference for tools and references, compaction equipment, and frequently used formulas and equations; a glossary of more than 500 terms; and many ready-touse forms. (225 pages)

# J. Soils, Earthwork, and Foundations:

# A Practical Approach, Based on the 2015 IRC and IBC

Authors Kirby T. Meyer and Dean Reed bridge the worlds of geotechnical engineering and foundation design, with construction activities and inspections dealing with soil conditions and building foundations. The book provides illustrations to assist in the understanding of the principles involved in foundations, guidelines for when to call on a geotechnical or foundation design engineer, and tips for effectively communicating with geotechnical and structural professionals. Building department personnel, inspectors, laboratory personnel, and foundation and earthwork contractors will find the book helpful. Architects and engineers will benefit from the information on design and field applications for foundations. (300 pages)

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Tools that make code-compliance quick, simple, and easy with intuitive interfaces, easy-to-use workflow, and detailed output reports unmatched in the industry.



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A program for the design and analysis of linear post-tensioned concrete floor systems. It supports up to 25 spans (plus cantilevers at the ends) and multiple segments with different cross-sections within a single span. PT Designer incorporates a user-friendly interface and attractive PDF outputs for more efficient use.



# **RTWall - Design of Concrete and Masonry Retaining Walls**

This easy-to-use program is for analyzing reinforced concrete and masonry cantilever and restrained retaining walls. It checks the wall and footing for strength and stability under a variety of loading conditions including soil, water, dead, live, wind, and seismic loads in accordance with the provisions of the 2015, 2012 and 2009 IBC.



### **Quick Anchor - Anchor Design for Concrete per ACI 318**

Calculates the tensile and shear strengths of cast-in-place and post-installed anchors (single or a group) in accordance with the provisions of ACI 318, 2005–2014 editions. Behind its intuitive interface, the program uses a very sophisticated computation algorithm to address a wide array of situations that one can encounter in the field, and generates a simple output to provide just the final results as well as a detailed output to display all the calculation steps. It is an ideal tool for doing quick iterations for design purposes as well as computing design strength of existing anchor(s).



# PTData.Net - Design of Post-Tensioned Concrete Frames

This Windows-based program is for the design and analysis of linear post-tensioned concrete frames. The software is extremely easy to use and is intended for both occasional and regular designers of post-tensioned concrete floor systems. PTData.Net can be used to design and analyze prismatic frames where the cross-section of the beams or slabs can vary from one span to another span, while the cross-section remains constant between supports in any given span.



# Anchor Pro - Anchor Design for Masonry per MSJC Code

Calculate the tensile and shear strengths of a single anchor or a group of anchors in masonry in accordance with the provisions of the 2005–2013 editions of TMS 402 masonry code. Headed or bent bar anchors designed by ASD or Strength Design are supported. A simple and intuitive interface makes it very easy to input all the necessary information and two output reports offer the users a choice to quickly check the final results or to go through all the critical steps of anchor design.



### Wind Simple

An intuitive program that implements the simplified procedure included in ASCE 7-10 and ASCE 7-16 that applies to enclosed buildings having a mean roof height up to 160 ft that meet the limitations in Part 2 of Chapter 27 in ASCE 7 for MWFRS or Part 4 of Chapter 30 for C&C. Wind Simple takes the design pressures from the applicable tables and sections within ASCE 7, automates the multiple interpolations that are involved, calculates the required adjustment factors, and provides all the results in a series of clear and simple tables and colorful illustrations. Provide the basic wind speed, exposure category, mean roof height, building plan dimensions, and roof type and slope and Wind Simples will provide MWFRS and C&C design pressures for all wall and roof zones. That's all it takes!

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