Structural Design of Low-Rise Buildings in Cold-Formed Steel, Reinforced Masonry, and Structural Timber
Hurricane Ike Recovery Advisories
Pipe & Excavation Contracting
Home Builder's Guide to Coastal Construction - Technical Fact Sheet Series
Construction Management
Minimum Design Loads for Buildings and Other Structures
2018 International Residential Code for One and Two-Family Dwellings, Loose-Leaf Version
Masonry Designers' Guide
Building Code Requirements and Specification for Masonry Structures
International Building Code 2006
Brick and Block Masonry
Building Code Requirements for Structural Concrete (ACI 318-11) and Commentary
Mitigation Assessment Team Report; Hurricane Ike in Texas and Louisiana - Building Performance Observations, Recommendations, and Technical Guidance
International Building Code 2009
Building Code Requirements and Specifications for Masonry Structures
Direct Design Handbook for Masonry Structures (TMS 403-10)
2009 Masonry Codes and Specifications Compilation
Handbook for Blast Resistant Design of Buildings
Design and Construction Guidance for Community Safe Rooms
Proceedings of the 7th International Probabilistic Workshop
Building Code Requirements for Structural Concrete (ACI 318M-08) and Commentary
Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary
3rd fib Congress Washington USA Building Code Requirements for Masonry Structures (ACI 530-05/ASCE 5-05/TMS 402-05) Reinforced Masonry Engineering Handbook
2015 International Building Code
Notes on ACI 318-08, Building Code Requirements for Structural Concrete and Commentary (Metric)
American Standard Building Code Requirements for Masonry
Building Code Requirements and Specification for Masonry Structures
ACI 318-14 Building Code Requirements for Structural Concrete and Commentary
American Standard Building Code Requirements for Masonry
Building Code Requirements and Specification for Masonry Structures
International Residential Code for One-And Two-Family Dwellings
2015 The Tectonics of Structural Systems
Concrete Manual
Home Builder's guide to coastal construction
International Building Code 2018
Recommended Seismic Design Criteria for New Steel Moment-Frame Buildings
Building Code Requirements for Masonry Structures (ACI 530-92/ASCE 5-92/TMS 402-92); Specifications for Masonry Structures (ACI 530.1-92/ASCE 6-92/TMS 602-92); Commentary on Building Code Requirements for Masonry Structures (ACI 530-92/ASCE 5-92/TMS 402-92); Commentary on Specifications for Masonry Structures (ACI 530.1-92/ASCE
The Tectonics of Structural Systems provides an architectural approach to the theory of structural systems. The book combines structural recommendations to follow during the architectural design of various structural systems and the tectonic treatment of structural recommendations in architecture. Written expressly for students, the book makes structures understandable and useful, providing: practical and useful knowledge about structures a design based approach to the subject of structures and a bridge in the gap between structures and the theory of design. Good architectural examples for each structural system are given in order to demonstrate that tectonics can be achieved by applying technical knowledge about structures. Over 300 illustrations visually unpack the topics being explained, making the book ideal for the visual learner.

Provides up-to-date, comprehensive coverage that establishes minimum regulations for building systems using prescriptive and performance-related provisions...

has been updated to conform to the 2009 International Building Code (IBC), the 2008 Building Code Requirements for Structural Concrete (ACI 318) and the 208 Building Code Requirements for Masonry Structures (ACI 530).

At the core of the California Building Code (CBC) are general building design and construction requirements set forth to safeguard life or limb, health, property, and public welfare. This makes the code a significant one for anyone entering the construction industry. The 2010 CALIFORNIA BUILDING CODE, TITLE 24 PART 2 is a powerful two-volume set that offers a fully integrated code based on the 2009 International Building Code. It concentrates on safety by regulating and controlling the design, construction, quality of materials, use and occupancy, location and maintenance of all buildings and structures and certain equipment. Contents include Title 24, Part 8 CALIFORNIA HISTORICAL BUILDING CODE, which covers provisions to provide for the preservation, restoration, rehabilitation, relocation, or reconstruction of buildings or structures designated as qualified historical buildings or properties. In addition, TITLE 24, PART 10 CALIFORNIA BUILDING STANDARDS COMMISSION is covered, targeting specific provisions of the International Existing Building Code. With such thorough coverage, this resource contains everything readers need to know about the construction requirements related to fire- and life- safety, structural safety, and access compliance. Check out our app, DEWALT Mobile Pro(tm). This free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add-ons. To learn more, visit dewalt.com/mobilepro.

LOOSELEAF VERSION: Featuring time-tested safety concepts and the very latest industry standards in material design, the 2009 International Building Code? offers up-to-date, comprehensive insight into the regulations surrounding the design and installation of building systems. It provides valuable structural, fire-, and life- safety provisions that cover means of egress, interior finish.
requirements, roofs, seismic engineering, innovative construction technology, and occupancy classifications. This content is developed in the context of the broad-based principles that facilitate the use of new materials and building designs, making this an indispensable reference guide for anyone seeking a strong working knowledge of building systems. A concise guide to the structural design of low-rise buildings in cold-formed steel, reinforced masonry, and structural timber. This practical reference discusses the types of low-rise building structural systems, outlines the design process, and explains how to determine structural loadings and load paths pertinent to low-rise buildings. Characteristics and properties of materials used in the construction of cold-formed steel, reinforced masonry, and structural timber buildings are described along with design requirements. The book also provides an overview of noncomposite and composite open-web joist floor systems. Design code requirements referenced by the 2009 International Building Code are used throughout. This is an ideal resource for structural engineering students, professionals, and those preparing for licensing examinations. Structural Design of Low-Rise Buildings in Cold-Formed Steel, Reinforced Masonry, and Structural Timber covers: Low-rise building systems Loads and load paths in low-rise buildings Design of cold-formed steel structures Structural design of reinforced masonry Design of structural timber Structural design with open-web joists. The 9th Edition of the Masonry Designers' Guide, designated as the MDG-2016 so that readers know it is based on the 2016 TMS 402/602 has been completely updated. Numerous additions and changes have been made, including a new Chapter on Reinforcement and Connectors, discussion and examples on new TMS 402-16 provisions, information related to masonry design requirements in the 2018 International Building Code (IBC), and updates related to new loading requirements in ASCE 7-16. Covers the design and construction of masonry structures, the minimum construction requirements for masonry in structures, and includes definitions, contract documents, quality assurance, materials, placement of embedded items, analysis and design, strength and serviceability, flexural and axial loads, shear, details and development of reinforcement, walls, columns, pilasters, beams and lintels, seismic design requirements, glass unit masonry, veneers, and autoclaved aerated concrete masonry; and are produced through the joint efforts of The Masonry Society (TMS), the American Concrete Institute (ACI) and the Structural Engineering Institute of the American Society of Civil Engineers (SEI/ASCE). This comprehensive code for homebuilding combines building, plumbing, mechanical, fuel gas, energy, and electrical provisions into a single resource. The 2015 INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO- FAMILY DWELLINGS SOFT COVER uses these provisions to provide detailed insight into the construction of one- and two-family dwellings and townhouses up to three stories high. Using foundational principles that facilitate the use of new materials and building designs to guide the content, this reference guide also establishes minimum regulations using
prescriptive provisions. This updated code includes information on common walls separating townhouses, remodeling of an existing basement, ramps that do not serve the required egress door, and carbon monoxide alarms. Offers the latest regulations on designing and installing commercial and residential buildings. Pipeline contracting can be rewarding work -- or a profitable sideline for any excavation contractor. But not everyone who owns a backhoe is ready to start bidding water, sewer and drainage jobs. This practical manual can help you develop the skills needed to succeed as an underground utility contractor. -- back cover. Unique single reference supports functional and cost-efficient designs of blast resistant buildings. Now there's a single reference to which architects, designers, and engineers can turn for guidance on all the key elements of the design of blast resistant buildings that satisfy the new ASCE Standard for Blast Protection of Buildings as well as other ASCE, ACI, and AISC codes. The Handbook for Blast Resistant Design of Buildings features contributions from some of the most knowledgeable and experienced consultants and researchers in blast resistant design. This handbook is organized into four parts: Part 1, Design Considerations, sets forth basic principles, examining general considerations in the design process; risk analysis and reduction; criteria for acceptable performance; materials performance under the extraordinary blast environment; and performance verification for technologies and solution methodologies. Part 2, Blast Phenomena and Loading, describes the explosion environment, loading functions needed for blast response analysis, and fragmentation and associated methods for effects analysis. Part 3, System Analysis and Design, explains the analysis and design considerations for structural, building envelope, component space, site perimeter, and building system designs. Part 4, Blast Resistant Detailing, addresses the use of concrete, steel, and masonry in new designs as well as retrofitting existing structures. As the demand for blast resistant buildings continues to grow, readers can turn to the Handbook for Blast Resistant Design of Buildings, a unique single source of information, to support competent, functional, and cost-efficient designs. Third Printing, incorporating errata, Supplement 1, and expanded commentary, 2013. The quality and testing of materials used in construction are covered by reference to the appropriate ASTM standard specifications. Welding of reinforcement is covered by reference to the appropriate AWS standard. Uses of the Code include adoption by reference in general building codes, and earlier editions have been widely used in this manner. The Code is written in a format that allows such reference without change to its language. Therefore, background details or suggestions for carrying out the requirements or intent of the Code portion cannot be included. The Commentary is provided for this purpose. Some of the considerations of the committee in developing the Code portion are discussed within the Commentary, with emphasis given to the explanation of new or revised provisions. Much of the research data referenced in preparing the Code is
cited for the user desiring to study individual questions in greater detail. Other documents that provide suggestions for carrying out the requirements of the Code are also cited. A ready-reference that furnishes various code requirements for masonry from the International Building Code®, International Residential Code® for One- and Two-Family Dwellings, and the entire Masonry Standards Joint Committee (MSJC) Building Code Requirements and Specification for Masonry Structures (TMS 402-08/ACI 530-08/ASCE 6-08 and TMS 602-08/ACI 530.1-08/ASCE 6-08). NOTE: NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT -- OVERSTOCK SALE -- Significantly reduced list price FEMA produced this series of 37 fact sheets to provide technical guidance and recommendations concerning the construction of coastal residential buildings. The fact sheets present information aimed at improving the performance of buildings subject to flood and wind forces in coastal environments. Photographs and drawings illustrate National Flood Insurance Program (NFIP) regulatory requirements, the proper siting of coastal buildings, and recommended design and construction practices for building components, including structural connections, the building envelope, and utilities. Many of the fact sheets also include lists of FEMA and other resources that provide more information about the topics discussed. Where appropriate, resources are accompanied by active web links. A list of the individual fact sheets that are contained in FEMA P-499, follows.

Category 1 General
Fact Sheet No. 1.1, Coastal Building Successes and Failures
Fact Sheet No. 1.2, Summary of Coastal Construction Requirements and Recommendations
Fact Sheet No. 1.3, Using a Flood Insurance Rate Map (FIRM)
Fact Sheet No. 1.4, Lowest Floor Elevation
Fact Sheet No. 1.5, V-Zone Design and Construction Certification
Fact Sheet No. 1.6, Designing for Flood Levels Above the BFE
Fact Sheet No. 1.7, Coastal Building Materials
Fact Sheet No. 1.8, Non-Traditional Building Materials and Systems
Fact Sheet No. 1.9, Moisture Barrier Systems
Category 2 Planning
Fact Sheet No. 2.1, How Do Siting and Design Decisions Affect the Owner's Costs?
Fact Sheet No. 2.2, Selecting a Lot and Siting the Building
Category 3 Foundations
Fact Sheet No. 3.1, Foundations in Coastal Areas
Fact Sheet No. 3.2, Pile Installation
Fact Sheet No. 3.3, Wood-Pile-to-Beam Connections
Fact Sheet No. 3.4, Reinforced Masonry Pier Construction
Fact Sheet No. 3.5, Foundation Walls
Category 4 Load Paths
Fact Sheet No. 4.1, Load Paths
Fact Sheet No. 4.2, Masonry Details
Fact Sheet No. 4.3, Use of Connectors and Brackets
Category 5 Wall Systems
Fact Sheet No. 5.1, Housewrap
Fact Sheet No. 5.2, Roof-to-Wall and Deck-to-Wall Flashing
Fact Sheet No. 5.3, Siding Installation in High-Wind Regions
Fact Sheet No. 5.4, Attachment of Brick Veneer In High-Wind Regions
Category 6 Openings
Fact Sheet No. 6.1, Window and Door Installation
Fact Sheet No. 6.2, Protection of Openings
Category 7 - Roofing
Fact Sheet No. 7.1, Roof Sheathing
Fact Sheet No. 7.2, Roof Underlayment for Asphalt Shingle Roofs
Fact Sheet No. 7.3, Asphalt Shingle Roofing for High-Wind Regions
Fact Sheet No. 7.4, Tile
The Code covers the design and construction of masonry structures while the Specification is concerned with minimum construction requirements for masonry in structures. Some of the topics covered in the Code are: definitions, contract documents; quality assurance; materials; placement of embedded items; analysis and design; strength and serviceability; flexural and axial loads; shear; details and development of reinforcement; walls; columns; pilasters; beams and lintels; seismic design requirements; glass unit masonry; veneers; and autoclaved aerated concrete masonry. An empirical design method and a prescriptive method applicable to buildings meeting specific location and construction criteria are also included. The Specification covers subjects such as quality assurance requirements for materials; the placing, bonding and anchoring of masonry; and the placement of grout and of reinforcement. This Specification is meant to be modified and referenced in the Project Manual. The Code is written as a legal document and the Specification as a master specification required by the Code. The commentaries present background details, committee considerations, and research data used to develop the Code and Specification. The Commentaries are not mandatory and are for information of the user only. "This Handbook provides a direct procedure for the structural design of single-story concrete masonry structures. The procedure is based on the strength design provisions of TMS 402-08/ACI 530-08/ASCE 5-08 and the corresponding loading requirements of ASCE
The construction professional has to be a "jack of all trades, and master of all." This text covers a wide range of subjects, reflecting the breadth of knowledge needed to understand the dynamics of this large and complex industry. This edition introduces extended coverage in the scheduling area to address more advanced and practice oriented procedures such as Start to Start, Finish to Finish, and similar relationship between activities in a network schedule.

Reported by the Masonry Standards Joint Committee. 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: An updated seismic map reflects the most conservative Seismic Design Category (SDC) based on any soil type and a new map reflects less conservative SDCs when Site Class A, B or D is applicable. The townhouse separation provisions now include options for using two separate fire-resistant-rated walls or a common wall. An emergency escape and rescue opening is no longer required in basement sleeping rooms where the dwelling has an automatic fire sprinkler system and the basement has a second means of egress or an emergency escape opening. The exemption for interconnection of smoke alarms in existing areas has been deleted. New girder/header tables have been revised to incorporate the use of #2 Southern Pine in lieu of #1 Southern Pine. New tables address alternative wood stud heights and the required number of full height studs in high wind areas.

Offers the latest regulations on designing and installing commercial and residential buildings. Brick and Block Masonry - Trends, Innovations and Challenges contains the lectures and regular papers presented at the 16th International Brick and Block Masonry Conference (Padova, Italy, 26-30 June 2016). In an ever-changing world, in which innovations are rapidly implemented but soon surpassed, the challenge for masonry, the oldest and most traditional building material, is that it can address the increasingly pressing requirements of quality of living, safety, and sustainability. This abstracts volume and full paper USB device, focusing on challenges, innovations, trends and ideas related to masonry, in both research and building practice, will proof to be a valuable source of information for researchers and practitioners, masonry industries and building management authorities, construction professionals and educators.

The Reinforced Masonry Engineering Handbook provides the coefficients, tables, charts, and design data required for the design of reinforced masonry structures. This edition improves and expands upon previous editions, complying with the current Uniform Building Code and paralleling the growth of reinforced masonry engineering. Discussions include: materials strength of masonry assemblies loads lateral forces reinforcing steel movement joints waterproofing masonry structures and products formulas for reinforced masonry design retaining walls and more. This comprehensive, useful book serves as an
exceptional resource for designers, contractors, builders, and civil engineers involved in reinforced masonry - eliminating repetitious and routine calculations as well as reducing the time for masonry design.

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