
Building Construction Illustrated

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Building Construction Illustrated *John Wiley & Sons*

The #1 visual guide to building construction principles, updated with the latest materials, methods, and systems For over four decades, Building Construction Illustrated has been the leading

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architecture, civil and structural engineering, construction management, and interior design programs. Ching communicates these core principles of building construction in a way that resonates with those beginning their education and those well into their careers looking to brush up on the basics. Building Construction Illustrated is a reliable, lifelong guide that practicing architects, engineers, construction managers, and interior designers, will turn to time and again throughout their careers.

Building Construction Illustrated *John Wiley & Sons*

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building systems, and use of new materials Archetypal drawings offer clear inspiration for designers and drafters Reflects the most current building codes and CSI Master Format numbering scheme With its comprehensive and lucid presentation of everything from foundations and floor systems to finish work, Building Construction Illustrated, Fourth Edition equips students and professionals in all areas of architecture and construction with useful guidelines for approaching virtually any new materials or techniques they may encounter in building planning, design, and construction.

Building Construction Illustrated *Wiley*

Comprehensive and up-to-date- the classic visual guide to the basics of building construction For twenty-five years, Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. Now this Third Edition has been expertly revised and updated to address the latest advances in materials, building technology, and code requirements. Complete with more than 1,000 illustrations, the book moves through each of the key stages of the design process, from site selection to building components, mechanical systems, and finishes. Topics within each chapter are organized according to the CSI MasterFormat(TM), making the book extremely easy to use. Special features of this edition include integrated coverage of environmentally friendly materials, sustainable building construction strategies, and ADA requirements, as well as the inclusion of both metric and standard U.S. measurements throughout the book. With its clear presentation of the basic concepts underlying building

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Building Structures Illustrated

Patterns, Systems, and Design *John Wiley & Sons*

A new edition of Francis D.K. Ching's illustrated guide to structural design. Structures are an essential element of the building process, yet one of the most difficult concepts for architects to grasp. While structural engineers do the detailed consulting work for a project, architects should have enough knowledge of structural theory and analysis to design a building. *Building Structures Illustrated* takes a new approach to structural design, showing how structural systems of a building—such as an integrated assembly of elements with pattern, proportions, and scale—are related to the fundamental aspects of architectural design. The book features a one-stop guide to structural design in practice, a thorough treatment of structural design as part of the entire building process, and an overview of the historical development of architectural materials and structure. Illustrated

throughout with Ching's signature line drawings, this new Second Edition is an ideal guide to structures for designers, builders, and students. Updated to include new information on building code compliance, additional learning resources, and a new glossary of terms. Offers thorough coverage of formal and spatial composition, program fit, coordination with other building systems, code compliance, and much more. Beautifully illustrated by the renowned Francis D.K. Ching. *Building Structures Illustrated, Second Edition* is the ideal resource for students and professionals who want to make informed decisions on architectural design.

Building Construction Illustrated *John Wiley & Sons*

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and use of new materials. Contains archetypal drawings that offer clear inspiration for designers and drafters. Reflects the 2012 International Building Codes and 2012 LEED system. This new edition of *Building Construction Illustrated* remains as relevant as ever, with the most current knowledge presented in a rich and comprehensive manner that does not disappoint.

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The Architect's Studio Companion

Rules of Thumb for Preliminary Design *John Wiley & Sons*

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Building Codes Illustrated

A Guide to Understanding the 2018 International Building Code *John Wiley & Sons*

THE BESTSELLING, FULLY ILLUSTRATED GUIDE TO THE 2018 INTERNATIONAL BUILDING CODE Uniquely marrying the graphic skills of bestselling author Francis D.K Ching with the code expertise of Steven Winkel, FAIA, the new sixth edition of Building Codes Illustrated is a clear, concise, and easy-to-use visual guide to the International Building Code (IBC) for 2018. Fully updated throughout, it highlights all of the changes to the code for quick reference and easy navigation. It pulls out the portions of the building code that are most relevant for the architect and provides an easy-to-understand interpretation in both words and illustrations. The first two chapters of Building Codes Illustrated: A Guide to Understanding the 2018 International Building Code, Sixth Edition give background and context regarding the development, organization, and use of the IBC. The following sections 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. A complete, user-friendly guide to code-compliant projects Highlights all the significant changes in the

2018 IBC Uses clear language and Frank Ching's distinctive illustrations to demystify the 2018 International Build Code (IBC) text Provides students and professionals with a fundamental understanding of IBC development, interpretation, and application Building Codes Illustrated: A Guide to Understanding the 2018 International Building Code gives students and professionals in architecture, interior design, construction, and engineering a user-friendly, easy-to-use guide to the fundamentals of the 2018 IBC.

Green Building Illustrated *John Wiley & Sons*

"Green Building Illustrated is a must-read for students and professionals in the building industry. The combination of incredibly expressive illustrations and accessible technical writing make concepts of green building on paper as intuitive as they would be if you toured a space with experts in sustainable building." —Rick Fedrizzi, President, CEO, and Founding Chair of the U.S. Green Building Council "The authors of Green Building Illustrated deliver clear and intelligent text, augmented by straightforward but compelling illustrations describing green building basics. This comprehensive book covers everything from the definition of green building, to details of high performance design, to sensible applications of renewable energy. This is a book with appeal for all architects and designers, because it addresses general principles such as holistic and integrated design, along with practical realities like affordability and energy codes. Green Building Illustrated describes a pathway for reaching Architecture 2030's carbon emission reduction targets for the built environment."—Ed Mazria, founder of Architecture

2030 "...a neophyte will have a very good overview of all the factors involved in green building. I see some excellent pedagogy at work!" — Jim Gunshinan, Editor, Home Energy Magazine Francis D.K. Ching brings his signature graphic style to the topic of sustainable design In the tradition of the classic Building Construction Illustrated, Francis D.K. Ching and Ian M. Shapiro offer a graphical presentation to the theory, practices, and complexities of sustainable design using an approach that proceeds methodically. From the outside to the inside of a building, they cover all aspects of sustainability, providing a framework and detailed strategies to design buildings that are substantively green. The book begins with an explanation of why we need to build green, the theories behind it and current rating systems before moving on to a comprehensive discussion of vital topics. These topics include site selection, passive design using building shape, water conservation, ventilation and air quality, heating and cooling, minimum-impact materials, and much more. Explains the fundamental issues of sustainable design and construction in a beautifully illustrated format Illustrated by legendary author, architect, and draftsman Francis D.K. Ching, with text by recognized engineer and researcher Ian M. Shapiro Ideal for architects, engineers, and builders, as well as students in these fields Sure to be the standard reference on the subject for students, professionals, and anyone interested in sustainable design and construction of buildings, Green Building Illustrated is an informative, practical, and graphically beautiful resource.

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now with a 3D digital building model for interactive learning For over three decades, Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. This new edition of the revered classic remains as relevant as ever, providing the latest information in Francis D.K. Ching's signature style. Its rich and comprehensive approach clearly presents all of the basic concepts underlying building construction. New to this edition are digital enhancements delivered as an online companion to the print edition and also embedded in e-book editions. Features include a 3D model showing how building components come together in a final project. Illustrated throughout with clear and accurate drawings that present the state of the art in construction processes and materials Updated and revised to include the latest knowledge on sustainability, incorporation of building systems, and use of new materials Contains archetypal drawings that offer clear inspiration for designers and drafters Reflects the 2012 International Building Codes and 2012 LEED system This new edition of Building Construction Illustrated remains as relevant as ever, with the most current knowledge presented in a rich and comprehensive manner that does not disappoint.

Introduction to Architecture *John Wiley & Sons*

"This major new collection introduces architecture to the beginning student or anyone who wants to learn about the built environment"--

Illustrated Dictionary of Building Design and Construction
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Anyone involved in the building industry - from architects and engineers to subcontractors and interior designers - will turn to this treasure trove of images and information The only illustrated dictionary to include construction, design, and related business terminology, it includes more photos and detailed drawings than any other book on the shelf. Shows pre- and post-construction aspects of building components.

Fundamentals of Building Construction

Complete Book of Framing

An Illustrated Guide for Residential Construction *John Wiley & Sons*

The bestselling step-by-step framing guide—updated and expanded to meet 2018 codes and standards Complete Book of Framing, Second Edition—Updated and Expanded is a comprehensive guide to rough carpentry and framing, written by an expert with over forty years of framing experience. This book guides the reader through step-by-step framing instructions for floors, walls, roofs, door and window openings, and stairs. Hundreds of full-color illustrations and photos enable novice and professional framers to understand and master framing techniques. This Updated and Expanded Second Edition includes the framing techniques of the 2018 International Building Code (IBC), International Residential Code (IRC), and updated OSHA rules. It also includes new coverage of today's electric tools, wind and earthquake framing, medical and physiological factors of framing, and a revised safety chapter. Builders will find

information on nailing patterns, overall layout, engineered wood patterns, and green framing. In addition, the book offers readers tools and techniques for preparing for a job and managing a team. This Second Edition—Updated and Expanded: Includes hundreds of full-color illustrations depicting step-by-step framing techniques Offers guidance on today's electric tools and structural enhancements for natural disasters Features a revised chapter on safety to reflect the medical and physiological factors of framing Meets the framing techniques of the 2018 International Building Code (IBC), International Residential Code (IRC), and Occupational Safety and Health Administration (OSHA) standards Complete Book of Framing: An Illustrated Guide for Residential Construction, Second Edition—Updated and Expanded is an excellent resource for framers, carpenters, and contractors of all experience levels. Framer-friendly tips throughout the book show how to complete framing tasks efficiently and effectively.

Interior Design Illustrated *John Wiley & Sons*

Offers a concise and accessible presentation of important concepts for beginning designers, and experienced practitioners will appreciate its insightful and practical coverage of the relationship between building structures and interior spaces. A broad range of rich illustrations communicates visual information and ploughs fertile ground for creative ideas and inspiration.

Illustrated Building Pocket Book *Routledge*

Building and architecture has developed a language of its own, with terms and jargon that can confuse an expert let alone an outsider. Misunderstandings over what a word means can be

irritating but unimportant, but could in the worst cases be costly or even dangerous. Traditional building dictionaries rely on the reader to already know what the correct word is, and that's not always the case. Roxanna McDonald's technique is radically different, and makes full use of the power of visual communication to convey information. Each stage of the building and design process is illustrated, and each hand-drawn illustration is carefully labelled with the relevant technical terms, to ensure that each term is used correctly and consistently by everyone working on a project. The 'Illustrated Building Pocket Book' is a radical approach to the age-old problem of the ambiguous use of technical language in building and architecture. By using drawings – which leave little room for ambiguity – clarity, safety and certainty can be achieved. * Detailed hand-drawn images explain what terms mean and show how to use them * Logical progression through the building process * Avoid costly and dangerous misunderstandings about what is meant by building jargon

Building Construction Illustrated

Building Codes Illustrated for Elementary and Secondary Schools

A Guide to Understanding the 2006 International Building Code *John Wiley & Sons*

Now more than ever, architects need an interpretive guide to understand how the building code affects the early design of specific projects. This easy-to-use, illustrative guide is part of a

new series covering building codes based on the International Building Code for 2006. This book presents the complex code issues inherent to elementary and secondary school design in a clear, easily understandable format.

Building Codes Illustrated

A Guide to Understanding the 2015 International Building Code *John Wiley & Sons*

Dive into the history and application of the IBC Building Codes Illustrated: A Guide to the 2015 International Building Code, Fifth Edition is a bestselling complement to the International Building Code, or IBC. Designed to give you an insider's look at the origins of the IBC, how it can be interpreted, and how it applies to design and construction, this updated text offers new information regarding hazmat occupancies, hospitals, and nursing homes, major changes to how building heights and areas are presented, as well as means of egress, and the latest information on building materials, interior environments, and structural provisions. Francis D.K. Ching's distinctive illustrations and the code expertise of Steven Winkel, FAIA, give students and professionals in architecture, interior design, construction, and engineering industries a user-friendly, easy-to-use guide to fundamentally understanding the 2015 IBC. Building codes and standards serve to establish minimum regulations that emphasize performance while prioritizing public health and safety. Updated every three years, the IBC is the most important reference that you can leverage throughout your career in architecture, design, or engineering. The IBC is a national 'model building code' which is

adopted in some form by most building permit jurisdictions across the nation and in several foreign countries. Access the updated regulations reflected in the 2015 IBC Explore how the IBC was developed, and why it is an important component of so many industries Identify the areas of the IBC that have undergone the most change, such as the presentation of building heights and areas, along with changes to means of egress provisions Easily navigate and digest the information with full illustrations Building Codes Illustrated: A Guide to the 2015 International Building Code, Fifth Edition is a practical, fully illustrated reference that guides you through the latest in building code regulations.

Why Buildings Stand Up

The Strength of Architecture *W. W. Norton & Company*

Traces the development of architectural structure, ranging from the nomad's simple tent to the Sears Tower

Building Construction Illustrated, Fourth Edition Wiley E-Text Card *Wiley*

Subsea Pipelines and Risers *Elsevier*

- Updated edition of a best-selling title
- Author brings 25 years experience to the work
- Addresses the key issues of economy and environment

Marine pipelines for the transportation of oil and gas have become a safe and reliable way to exploit the valuable resources below the world's seas and oceans. The design of these pipelines is a relatively new technology and continues to evolve

in its quest to reduce costs and minimise the effect on the environment. With over 25 years experience, Professor Yong Bai has been able to assimilate the essence of the applied mechanics aspects of offshore pipeline system design in a form of value to students and designers alike. It represents an excellent source of up to date practices and knowledge to help equip those who wish to be part of the exciting future of this industry.

Structure As Architecture *Routledge*

Structure As Architecture provides readers with an accessible insight into the relationship between structure and architecture, focusing on the design principles that relate to both fields. Over one hundred case studies of contemporary buildings from countries across the globe including the UK, the US, France, Germany, Spain, Hong Kong and Australia are interspersed throughout the book. The author has visited and photographed each of these examples and analyzed them to show how structure plays a significant architectural role, as well as bearing loads. This is a highly illustrated sourcebook, providing a new insight into the role of structure, and discussing the point where the technical and the aesthetic meet to create the discipline of 'architecture'.

Architectural Graphics *Elsevier*

Architectural Graphics focuses on the techniques, methodologies, and graphic tools used in conveying architectural ideas. The book takes a look at equipment and materials, architectural drafting, and architectural drawing conventions. Discussions focus on drawing pencils, technical drawing pens, set squares/templates,

circle templates/compasses, line weight/line types, drafting technique, drawing circular elements, floor plan, doors and windows in plan, stairs, wall indications, plan grids, and site boundaries. The manuscript examines rendition of value and context and graphic symbols and lettering. Topics include tonal values, media and techniques, value/texture rendition, material rendition, shades and shadows, people, furniture, graphic representation symbols, and hand lettering. The text explores freehand drawing and architectural presentations, including freehand sketching, graphic diagramming, and sketching equipment. The publication is a valuable reference for architects interested in doing further studies in architectural graphics.

Barry's Introduction to Construction of Buildings *John Wiley & Sons*

The five volume series, Barry's Construction of Buildings, has been established as a standard text on building technology for many years. However, a substantial update has long been required, and while doing this the opportunity has been taken to reduce five volumes to two in a more user-friendly format. The introductory volume covers domestic construction and brings together material from volumes 1, 2 and part of 5. The extensive revision includes modern concepts on site assembly, environmental issues and safety, and features further reading.

Building Construction

Principles, Materials, and Systems *Pearson Education*

The science of building construction and design is evolving more

quickly than ever before. The second edition of this outstanding text builds on the previous version. It incorporates the latest updates available, features hundreds of new pieces of artwork, and is now in FULL COLOR! Written by an author team with decades of experience in architecture, building construction, engineering, and teaching, *Building Construction: Principles, Materials & Systems 2nd Edition* is a comprehensive and fully illustrated introduction to construction methods and materials. Continuing on with the book's unique organization, *Principles of Construction* are covered in Part One and *Materials and Systems* are covered in Part Two. Emphasizing a visual approach to learning, it includes more than 1,400 original illustrations and an extra large trim size (9" x 12") that provides an open and inviting layout that readers are sure to appreciate. Plus! A completely revamped and expanded companion website, "MyConstructionKit", is also available!

Form Follows Finance

Skyscrapers and Skylines in New York and Chicago *Princeton Architectural Press*

In contrast to standard histories that counterpose the design philosophies of the Chicago and New York "schools," *Form Follows Finance* shows how market formulas produced characteristic forms in each city - "vernaculars of capitalism" - that resulted from local land-use patterns, municipal codes, and zoning. Refuting some common clichés of skyscraper history such as the equation of big buildings with big business and the idea of a "corporate skyline," this book emphasizes the importance of

speculative development and the impact of real estate cycles on the forms of buildings.

The Interior Design Productivity Toolbox

Checklists and Best Practices to Manage Your Workflow *John Wiley & Sons*

Get organized and streamline your workflow with this A-Z accountability system. Design is only part of an interior designer's job—you're also responsible for scheduling client meetings, conducting design surveys, creating drawings and specs, and overseeing installation. Multiply by the number of projects on your plate, and you have a recipe for overwhelming disorganization. The *Interior Design Productivity Toolbox* helps you juggle multiple projects with ease, with a comprehensive self-management system tailored to the needs of interior designers and decorators. Features include: Detailed checklists that highlight weak spots and warn against common pitfalls. Covers residential design, contract design, specifications, and renovations. Best practices for meetings, design surveys, drawings, specifications, and renovations. Customizable online checklists for tracking every phase of your project. Exclusive online budgeting tool for tracking product costs and associated expenses to share with your team and your clients. If you need to get organized and get back to work, you need *The Interior Design Productivity Toolbox*.

Architectural Detailing

Function, Constructibility, Aesthetics *John Wiley & Sons*

The industry-standard guide to designing well-performing buildings. Architectural Detailing systematically describes the principles by which good architectural details are designed. Principles are explained in brief, and backed by extensive illustrations that show you how to design details that will not leak water or air, will control the flow of heat and water vapor, will adjust to all kinds of movement, and will be easy to construct. This new third edition has been updated to conform to International Building Code 2012, and incorporates current knowledge about new material and construction technology. Sustainable design issues are integrated where relevant, and the discussion includes reviews of recent built works that extract underlying principles that can be the basis for new patterns or the alteration and addition to existing patterns. Regulatory topics are primarily focused on the US, but touch on other jurisdictions and geographic settings to give you a well-rounded perspective of the art and science of architectural detailing. In guiding a design from idea to reality, architects design a set of details that show how a structure will be put together. Good details are correct, complete, and provide accurate information to a wide variety of users. By demonstrating the use of detail patterns, this book teaches you how to design a building that will perform as well as you intend. Integrate appropriate detailing into your designs. Learn the latest in materials, assemblies, and construction methods. Incorporate sustainable design principles and current building codes. Design buildings that perform well, age gracefully, and look great. Architects understand that aesthetics are only a small fraction of good design, and that

stability and functionality require a deep understanding of how things come together. Architectural Detailing helps you bring it all together with a well fleshed-out design that communicates accurately at all levels of the construction process.

Construction Technology

An Illustrated Introduction *John Wiley & Sons*

This new textbook provides a comprehensive introduction to every aspect of the technology of low-rise construction. It includes sub-structure (site work, setting out and foundations) and superstructure (flooring, roofs, finishes, fittings and fixtures). The material here covers the first year course requirement of all courses on which construction technology is taught - no matter what the ultimate qualification. It offers tried and tested solutions to a range of construction problems and is organised following the sequence of construction. It will show what has been done in the past, demonstrating good practice - what works and what doesn't - and common faults. There are summaries of the more important BSI documents and reference to the latest building regulations. Lengthy explanations are avoided by relying heavily on hundreds of illustrations, pairing detail drawings with clear photographs to show real life construction situations. The supporting spreadsheet referred to in the book can be found at this link: http://www.blackwellpublishing.com/pdf/fleming/Fleming_spreadsheet.xls

Building Construction Illustrated, Etc

Building Anatomy (McGraw-Hill Construction Series)

An Illustrated Guide to How Structures Work *McGraw Hill Professional*

Aimed at architects, engineers, construction managers, and urban planners.

Chudley and Greeno's Building Construction Handbook *Routledge*

The 12th edition of Chudley and Greeno's Building Construction Handbook remains THE authoritative reference for all construction students and professionals. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on modern methods of construction, greater emphasis on sustainability and a new look interior. Chudley and Greeno's Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

Building Design and Construction Handbook *McGraw-Hill Companies*

Provides updated, comprehensive, and practical information and guidelines on aspects of building design and construction, including materials, methods, structural types, components, and costs, and management techniques.

How Buildings Work

The Natural Order of Architecture *Oxford University Press*

Illustrated with hundreds of illuminating line drawings, this classic guide reveals virtually every secret of a building's function: how it stands up, keeps its occupants safe and comfortable, gets built, grows old, and dies--and why some buildings do this so much better than others. Drawing on things he's learned from the many buildings he himself designed (and in some cases built with his own hands), Edward Allen explains complex phenomena such as the role of the sun in heating buildings and the range of structural devices that are used for support, from trusses and bearing walls to post-tensioned concrete beams and corbeled vaults. He stresses the importance of intelligent design in dealing with such problems as overheating and overcooling, excessive energy use, leaky roofs and windows, fire safety, and noisy interiors. He serves up some surprises: thermal insulation is generally a better investment than solar collectors; board fences are not effective noise barriers; there's one type of window that can be left open during a rainstorm. The new edition emphasizes "green" architecture and eco-conscious design and construction. It features a prologue on sustainable construction, and includes

new information on topics such as the collapse of the World Trade Center, sick building syndrome, and EIFS failures and how they could have been prevented. Allen also highlights the array of amazing new building materials now available, such as self-cleaning glass, photovoltaics, transparent ceramics, cloud gel, and super-high-strength concrete and structural fibers. Edward Allen makes it easy for everyone--from armchair architects and sidewalk superintendents to students of architecture and construction--to understand the mysteries and complexities of even the largest building, from how it recycles waste and controls the movement of air, to how it is kept alive and growing.

Building Construction Illustrated 4E with Visual Dictionary of Architecture Set *John Wiley & Sons Incorporated*

Architect's Pocket Book *Routledge*

This pocket book includes everyday information which the architect/designer has to find from a wide variety of sources. The book includes data about planning, structure, services, building elements, materials and useful addresses.

Building Construction Illustrated 4E E-Text Registration Card

Green Building Illustrated *John Wiley & Sons*

FULLY ILLUSTRATED, UPDATED GUIDE TO THE STRATEGIC DESIGN OF GREEN BUILDINGS In the tradition of *Building Construction Illustrated*, Francis D.K. Ching and Ian M. Shapiro offer a fully illustrated guide to the theory and practice of sustainable design. This guide provides architects, designers, and builders in the green design professional community a framework and detailed strategies for designing substantively green buildings. With a focus on sustainable sites, approaching and reaching net-zero energy, low and zero-water usage, minimum-impact materials and superior indoor environmental quality, this guide explains why we need to build green, as well as green building theory and advancements in the industry. This Second Edition includes: All-new case studies featuring geographically diverse buildings with proven zero energy performance Expanded coverage of zero energy building design, as well as zero water and zero waste buildings Practical guidance for the schematic design of high-performance buildings, heating and hot water system selection, building envelope details, and integrating renewable energy Advanced strategies, such as the concept of shape efficiency, and the optimal location for stairwells in buildings Additional strategies for affordability in green design and construction Updated references to the latest codes and standards This Second Edition of *Green Building Illustrated* is an excellent resource for professionals, students and those interested in the design and construction of sustainable buildings.