

Download Ebook Becoming A Green Building Professional A Guide To Careers In Sustainable Architecture Design Engineering Development And Operations

Becoming A Green Building Professional A Guide To Careers In Sustainable Architecture Design Engineering Development And Operations

An important consideration for energy-efficient buildings is their primary energy requirements over the entire life cycle. How to determine this? What integrative factors influence the performance of a healthy and sustainable building? This, while it may be important for clients and architects to know, is frequently not very transparent. This book has been written to assist with clarifying target criteria and expanding horizons when it comes to ecological buildings. It is meant as a handbook and source of reference for clients, architects, planners and building operators, to provide them with pertinent information about their design, construction and operation: how to do this in the most energy-efficient and economical manner? Also, there is feedback and documentation about prominent buildings like the Hamburg Dockland or the Landesbank Baden-Wuerttemberg in Stuttgart. They provide excellent architectural examples for detailed construction and design solutions. Further, there are insightful interviews with architects and clients about many important buildings, which help turn this book into an integrated source of reference for sustainable architecture. - A Guideline for Planning, Construction and Operation of sustainable Buildings - A source of reference for clients, architects, planners and building operators - Innovative architectural examples with sustainable concepts and design Highlighted by more than 350 full-color photographs and

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illustrations, a comprehensive study of sustainable, energy-efficient, and healthful home construction offers a detailed explanation of green building fundamentals that covers such topics as site planning, materials selection, efficient energy alternatives, indoor air quality, and more at every stage in the construction process, from framing to finishes. Original.

Is it really possible to be a Rainmaker AND have peace of mind? . . . We think so! The Happy Law Practice offers guidance on essential business development skills without sacrificing work-life balance. Twenty-one lawyers and entrepreneurs of varying expertise use their combined knowledge in law, business development, well-being, and more to bring you tips and strategies on how to make your business flourish and keep your stress levels low during the process. Covering such topics as productivity, networking, branding, organization, and stress management, The Happy Law Practice will give you the skills that all lawyers need to THRIVE in their career. Whether you are a well-established lawyer or just starting your practice, this book offers tips, strategies, and innovative insights that is sure to help you succeed.

Buildings and their associated systems are the largest source of greenhouse gases in the world. The 2030 Challenge aims to produce zero-net energy from new North American construction by 2030 while achieving a 50 percent reduction in carbon emissions from existing buildings. With less than 4 percent of commercial and residential structures in the United States and Canada certified by 2015, we seem destined to fall catastrophically short of this target. Reinventing Green Building combines a unique, insider's critique of the current state of affairs with a potent vision for the future. This highly visual, data-driven analysis brings together the wisdom of today's leading practitioners including: Up-to-date information on green building issues, energy economics, and new

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technology Dramatic new approaches to certification system design and user experience Creative, outside-the-box solutions using the Internet of Things, big data analytics, and cloud-based technologies for building management The green building revolution has failed to fulfill its promise to transform the marketplace in a meaningful way. Smart, simple, and sustainable: Reinventing Green Building presents a new approach to certification, designed to radically cut costs while dramatically increasing marketplace acceptance integrating true climate mitigation and better building performance. Jerry Yudelson, dubbed "The Godfather of Green" by Wired magazine in 2011, has many years of professional experience in the green building field, elected as a LEED Fellow and having served as the president of the Green Building Initiative. He is the author of thirteen books in the field, including Dry Run, Choosing Green, and Green Building A–Z.

A companion to Understanding Green Building Guidelines, this primer explains green building products—what they are and how to choose them. From eco-friendly sheetrock to sustainable paint finishes, the green building movement is gaining momentum. But with new products, manufacturers, and standards being introduced routinely, how are architects or designers to know what's best for their projects? This book summarizes what is available and the considerations for selecting sustainable materials.

Designed for those seeking a better understanding of current design and building performance issues, this text covers how buildings and ecosystems can work together, as well as the sustainability concerns inspiring current regulations. Relevant codes and standards are discussed in depth, with particular attention to the International Green Construction Code. Looking for a green job in the construction field? As part of Peterson's Green Careers in Energy, this eBook offers

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detailed information on careers in construction and building operations: Architect; Construction Carpenter; Construction Manager; Electrician; Energy Auditor; Energy Engineer; Facilities Manager; Insulation Installer; and Heating, Air Conditioning, and Refrigeration Mechanic and Installer. You'll find up-to-date information on job trends, work environment, career paths, earning potential, education/licensure requirements, and contact information for additional resources. This eBook also features interviews with individuals working in construction and building operations, an informative article that explains what LEED is all about, and "green" tidbits about cutting the nation's energy use, green building materials, Calgreen, energy in existing buildings, and more! Bonus sections include: "What Does Being Green Mean," which examines the current interest in sustainability and the New Energy for America program, and "Essays on the Importance of Sustainability," which offers insightful articles by individuals at the forefront of environmental organizations, university sustainability efforts, and college training programs.

Want to build responsibly, reduce waste, and help preserve the environment? *Green Building & Remodeling For Dummies* is your friendly, step-by-step guide to every facet of this Earth-friendly method of construction. Building a home—even a green home—uses plenty of resources and energy. This practical, hands-on book shows you how to build or remodel conscientiously, whether your dream home is a simple remodel or a brand-new multimillion-dollar mansion. You'll start by identifying green materials and sizing up potential systems and construction sites. You'll weigh the pros and cons of popular green building methods and identify opportunities for saving money in the long run. Need to find some green professionals to assist you in your venture? We'll help you do that, too. This book will also help you

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discover how to: Understand the lifecycle of building materials Choose the right system for your green building project Put together a green team Work within your budget Use green building methods and sustainable systems Speed construction and reduce energy use and waste Refinish old fixtures and materials Beware of asbestos and lead-paint hazards Avoid costly mistakes Complete with lists of ten green things to do on every project and ten things you can do right now in your home in order to go green, *Green Building & Remodeling For Dummies* is your one-stop guide to planning and building the home you've always wanted.

The one-stop guide for choosing a green building rating system Today, sustainability is a growing concern for the architects, designers, builders, and owners of commercial and residential buildings. Meeting the requirements of a rating system provides a metric to evaluate and set priorities. But the variety and complexity of methods available to assess the eco-friendliness of a building can seem overwhelming. *Guide to Green Building Rating Systems* informs readers about the rating system selection process. Comparing essential issues such as cost, ease of use, and building performance, this book offers solid guidance that will help readers find the rating system that best fits their needs. This easy-to-follow reference includes: An overview of the major national rating systems, including LEED®, Green Globes®, the National Green Building Standard, and ENERGY STAR® An in-depth look at each rating system, including its evolution, objectives, point structure, levels of certification, benefits, and shortcomings How the ratings systems work for different types of buildings—commercial, multi-family residential, and single-family residential construction Illustrated case studies from different climate regions with project descriptions, cost data, and lessons learned by design teams, constructors, and owners An overview of local, regional, and international rating

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systems Guide to Green Building Rating Systems demystifies complex material, making this book an essential reference for building professionals engaged in, or wishing to pursue, sustainable building practices.

Becoming a Green Building Professional A Guide to Careers in Sustainable Architecture, Design, Engineering, Development, and Operations John Wiley & Sons

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This book helps readers understand the fundamental concepts of sustainable design and green building practices, which will soon become common practice on every project. It is also intended as a practical study guide for the LEED Green Associate exam, with a step-by-step study guide and an assessment (a practice exam with 80 questions and a focused discussion for each example). This book includes a discussion on why this topic is important to understand, practice, and teach along with practical examples of methods that are being used to increase a project's environmental performance and additional study resources/references. Some features include:

- Covers cost implications of green building practices, including initial investments, long-term cost benefits, and current market trends. Provides a practical guide to understanding fundamental sustainable design and green building practices. Includes a Focused Study Guide that helps readers prepare for the LEED-Green Associate exam.

Market: architects; engineers; project managers; general contractors; cost estimators; property and real estate managers; facility managers; property developers

International appeal: includes 25 project profiles from the US, Canada, United Kingdom, Australia, Spain, China, and India

Thirty key players share their experiences and lessons

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learned from working on green building projects

Experts consider green construction and the social, institutional, and cultural changes associated with it, through a sociological and organizational lens.

A career guide for professionals in sustainable architecture, design, planning, development, and related consulting. For those considering a new career or a career change focused on green and sustainable building and design, *Becoming a Green Building Professional* offers practical information on educational requirements, career options, guidance and tips, and first-hand interviews with green building professionals. Perfect for underemployed architects and other building and design professionals who want to reinvent and renew their careers, as well as students considering such a career, this is a vital and informative guide to a growing field.

Summarizes the main issues and strategies of the forceful and fast-paced green building movement. Many professions are increasingly producing tools to assist clients in breaking down and understanding the different elements that reside under the umbrella of the sustainability movement. For the design and construction professions, this unpacking often takes the form of green building guidelines and rating systems. This book aims to look at a selection of both national and local green building rating systems and guidelines, ranging from commercial to residential. While the goal is to provide students and young professionals with a solid overview of each product, enabling them to understand the differences and select the most appropriate system for their chosen projects, the book provides valuable overviews and comparisons for anyone interested in better buildings: designers, homeowners, realtors, contractors, facility managers, site designers, and more.

Book features Forward, Contents, Builder's Matrix. The

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information in this book was developed primarily for home builders, but others will find it useful. The book is intended to be national in scope, so all of the construction information and examples are not relevant for all climates. At the end of each section, readers will find "Interactions," references to other sections of the book that describe design strategies, systems, components, or materials that interact in important ways with the topic of the chapter.

"The members of 7group and Bill Reed are examples writ large of the kind of leadership that is taking this idea of green building and forming it into reality, by helping change minds, building practice, and design process." —from the Foreword by S. Rick Fedrizzi President, CEO, and Founding Chair, U.S. Green Building Council A whole-building approach to sustainability The integrative design process offers a new path to making better green building decisions and addressing complex issues that threaten living systems. In *The Integrative Design Guide to Green Building: Redefining the Practice of Sustainability*, 7group's principals and integrative design pioneer Bill Reed introduced design and construction professionals to the concepts of whole building design and whole systems. With integrative thinking that reframes what sustainability means, they provide a how-to guide for architects, designers, engineers, developers, builders, and other professionals on incorporating integrative design into every phase of a project. This practical manual: Explains the philosophy and underpinnings of effective integrative design, addressing systems thinking and building and community design from a whole-living system perspective Details how to implement integrative design from the

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discovery phase to occupancy, supported by process outlines, itemized tasks, practice examples, case studies, and real-world stories illustrating the nature of this work. Explores the deeper understanding of integration that is required to transform architectural practice and our role on the planet. This book, both practical and thoughtful, will help you deliver your vision of a sustainable environment. 7group, based in Kutztown, Pennsylvania, includes principals John Boecker, Scot Horst, Tom Keiter, Andrew Lau, Marcus Sheffer, and Brian Toevs, who bring a unique integration of expertise in design, engineering, energy and daylight modeling, materials assessments, commissioning, education, and communications to their work. Internationally recognized thought leaders in the green building movement, they have led countless teams through the practical implementation of integrative design on building projects of all types around the world. 7group also has been directly and deeply involved with the development of the LEED® Green Building Rating System, including experience on more than 100 LEED projects. Scot Horst currently serves as chair of the U.S. Green Building Council's LEED Steering Committee. [View other cover designs by searching the Series Title or just the Title.] Product quality is higher than shown in store-created imagery. Carry and use this 8.5x11 sketchbook for sketches, drawings, watercolors, diagrams, sports play book, scrapbook, field notes, mapping, designs, logs, etc. Yes, it can serve any of these needs and more. 150+ blank pages with light gray page numbers. Also includes: blank field title page to fill in 3-page double-column blank table of contents HIGH

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GLOSS FINISH for extra protection on the go See other designs available from "N.D. Author Services" (NDAuthorServices.com) in its multiple series of 600, 365 or 150 page Mega-Journals, Journals, Notebooks, Sketchbooks, etc. Many available in Blank, Grid, Hex, Lined, Meeting, Planner and other interior formats. Over 10,000 individual variations across pg. count + cover design + interior format as of 2018.

Marketing Green Building Services: Strategies for Success presents all the information key decision-makers need to respond to the fast-growing market for green buildings, design and construction services and products. Completely updated, revised and expanded from the author's previous works, this book is the one resource you need to succeed in the green building marketplace. With a sound grounding in contemporary marketing theory and practice, the book assembles hard-to-find information to assist executives and partners in design and construction firms in crafting competitive strategies that build on their firm's strengths, while shoring up their weaknesses. Since most design and construction firms specialize in particular market sectors, the book systematically examines the important market segments for green buildings. It also presents key business case justifications for green buildings that help architects, engineers and builders to understand client motivations and respond to them with appropriate marketing tactics and communications strategies. The book examines how the green building market is adopting certain new products and design approaches, information that will help manufacturers and product

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sales teams to craft appropriate marketing strategies.

The book also helps owners and developers understand the green building business case and to find out what other leading-edge firms and projects have learned - how to market and sell green buildings and green developments in a highly competitive marketplace.

GREEN BUILDING MATERIALS THE ULTIMATE USER'S MANUAL TO GREEN BUILDING MATERIALS

To properly select and specify green building materials, successful architects need authoritative, real-world advice on how to select and use nontoxic, recycled, and recyclable products, and how to integrate these products into the design process in order to capitalize on the many practical and economic advantages of “going green.”

Green Building Materials, Third Edition is the most reliable, up-to-date resource to meet today's green building challenges—from reducing waste and improving energy efficiency to promoting proper code compliance and safeguarding against liability claims. Written by two nationally known experts on green building methods and materials, Green Building Materials, Third Edition offers in-depth, practical information on the product selection, product specification, and construction process. This new Third Edition is an excellent hands-on guide to today's newest range of green building materials: what they are, where to find them, how to use them effectively, and how to address LEED requirements. Organized by CSI MasterFormat® category for fast access to specific information, it features: A new chapter on eco-labels, green standards, and product certification A new appendix providing reference information for

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sustainability standards and standards development organizations New sample specifications, including green power requirements, vegetated green roof systems, rainwater harvesting, and water reuse systems Revised and updated review of trends affecting the future of green building materials Updated approach and reference information for the product selection process Green Building Materials, Third Edition is an essential tool for designing environmentally friendly buildings—ones made from materials that preserve the Earth's natural legacy for future generations. LEED v4 Practices, Certification, and Accreditation Handbook, Second Edition, provides users with a practical user-friendly roadmap that presents the guidelines for selecting the LEED v4 rating system to better fit a particular project (e.g. LEED for Building Design and Construction, LEED for Operations and Maintenance, LEED for Interior Design and Construction, LEED for Building Design and Construction, or LEED for Neighborhood Development). In addition, this comprehensive handbook carefully explains the modifications in the credentialing process, including the new 3-Tier system requiring applicants to first take the LEED™ Green Associate exam, followed by the LEED™ Professional Accreditation exam. Practical strategies and guidelines for applying LEED v4 project certification Annotated tables, checklists, charts, and references to "quantum leap," LEED v4 Includes case studies with special focus is put on key areas where most errors occur Demystifies LEED v4 requirements for project as well as personal/professional LEED

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Certification Appendixes including sample exam questions, acronyms and abbreviations and a glossary Written for contractors and endorsed by the Associated General Contractors of America Written specifically for contractors, this "how-to" book enables you to meet the challenges of green building construction. You'll discover how constructing environmentally friendly, sustainable buildings influences project management, delivery, documentation, and risk. Moreover, the book guides you through these important considerations at all phases of a green construction project, including: Bidding and contracting Managing green design when the contractor works as a design builder Subcontracting Procurement Construction management Project commissioning and closeout This book is endorsed by the Associated General Contractors of America (AGC) and was written with the assistance and advice of a specially assembled AGC task force. With a focus on the green building process from the contractor's viewpoint, the book avoids endorsing any one green building rating system in favor of presenting the business fundamentals common to them all. Throughout the presentation, flowcharts and other features offer working tools for successfully managing green construction projects. Plus, real-world case studies developed through discussions with the actual contractors involved help you understand exactly what to expect and how to best manage constructing a green building. In short, this is one book that you need to have on hand to be a part of the rapidly growing green building movement.

The leading green building reference, updated with the

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latest advances in the field Sustainable Construction is the leading reference for the design, construction, and operation of high performance green buildings. With broad coverage including architecture, engineering, and construction, this book nevertheless delivers detailed information on all aspects of the green building process, from materials selection to building systems and more. This new fourth edition has been updated to reflect the latest codes and standards, including LEED v4, and includes new coverage of carbon accounting. The discussion has been updated to align with the current thinking on economics, climate change, net zero buildings, and more, with contributions by leaders in the field that illustrate the most recent shifts in thinking and practice. Ancillary materials including an instructor's manual and PowerPoint presentations for each chapter help bring this clear and up-to-date information into the classroom, making this book a valuable reference for working construction professionals. Also, Interactive graphics found throughout the course help activate the content and highlight key concepts for students. Sustainable construction has gone mainstream, and will one day be the industry norm. This book provides a comprehensive reference to all aspects of a project to show you how green building concepts and principles apply throughout the design and construction process. Get up to date on the latest green building codes and standards Learn about the newest technology in green building materials Adopt the best practices in procurement and delivery systems Apply sustainability concepts to all aspects of construction and design Green

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buildings operate at a very high level of efficiency, which is made possible only by careful consideration every step of the way. Appropriate land use, landscaping, construction materials, siting, water use, and more all play a role in a structure's ultimate carbon footprint. Sustainable Construction provides clear guidance for all aspects of green building, including the most recent advances and the latest technology.

THE GODFATHER OF GREEN: AN ECO-SPIRITUAL MEMOIR shows one person finding his place over many years as an active participant in three major environmental movements, beginning with the first Earth Day in 1970, up to the present Climate Crisis. During that time, Jerry Yudelson actively studied meditation and mindfulness practices under the guidance of two powerful Indian spiritual masters. He struggles over many years to integrate these disparate worlds for the betterment of himself and the environment. Through stories, contemplations, poems and revealing insights, Jerry describes intense encounters with meditation masters, politicians, wives and lovers, activists, architects and engineers, bureaucrats and business leaders, as well as with his own deepest Self.

Green building is the fastest-growing trend to hit since the Internet, bringing with it an enormous range of new products, systems, and technologies. Green Building A to Z is an informative, technically accurate, and highly visual guide to green building, for both decision-makers and interested citizens. It begins with an introduction to the importance of

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green buildings and a brief history of the green building movement, outlines the benefits and costs of green buildings, and shows how you can influence the spread of green buildings. The book touches on key issues, such as enhancing water conservation, reducing energy use, and creating a conservation economy. The book examines all aspects of green buildings, including: Architecture 2030 Locally sourced materials Natural ventilation Solar energy Zero-net-energy buildings More than just a reference, this book emphasizes the importance of green buildings and green developments for a sustainable future. It will be an invaluable resource for businesspeople, homeowners, product manufacturers, developers, building industry professionals, and government officials.

Written for architects and the design and construction team, this is a comprehensive guide to an integrated design process to create more sustainable buildings. The book is organized in a sequence similar to that employed by conventional design, so that it can be utilized as a real-world guide. Learning how to shift into the mindset essential to implementing integrated design, readers will explore into such processes as systems thinking, appreciative inquiry, non-hierarchical leadership, holistic mapping, and linear versus integrated architectural design progression. Multiple case studies are incorporated to provide concrete

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examples of successful integrated design implementation.

“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

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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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The “green building revolution” is happening right now. This book is its chronicle and its manifesto. Written by industry insider Jerry Yudelson, *The Green Building Revolution* introduces readers to the basics of green building and to the projects and people that are advancing this movement. With interviews and case studies, it does more than simply report on the revolution; it shows readers why and how to start thinking about designing, building, and operating high performance, environmentally aware (LEED-certified) buildings on conventional budgets. Evolving quietly for more than a decade, the green building movement has found its voice. Its principles of human-centered, environmentally sensitive development have reached a critical mass of architects, engineers, builders, developers, professionals in government, and consumers. Green buildings are showing us how we can have healthier indoor environments that use far less energy and water than conventional buildings do. The federal government, eighteen states, and nearly fifty U.S. cities already require new public buildings to meet “green” standards. According to Yudelson, this is just the beginning. *The Green Building Revolution* describes the many “revolutions” that are taking place today: in commercial buildings, schools, universities, public buildings, health care institutions, housing, property management, and neighborhood design. In a clear, highly readable style, Yudelson

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outlines the broader “journey to sustainability” influenced by the green building revolution and provides a solid business case for accelerating this trend. Illustrated with more than 50 photos, tables, and charts, and filled with timely information, The Green Building Revolution is the definitive description of a major movement that’s poised to transform our world.

GREEN BUILDING: PRINCIPLES AND PRACTICES IN RESIDENTIAL CONSTRUCTION provides a current, comprehensive guide to this exciting, emerging field. From core concepts to innovative applications of cutting-edge technology and the latest industry trends, this text offers an in-depth introduction to the construction of green homes. Unlike many texts that adopt a product-oriented approach, this book emphasizes the crucial planning, processes, and execution methods necessary for effective, environmentally sound construction. This text demonstrates that Earth-friendly products and energy-efficient materials take planning in order to make a building truly green. This visionary text helps students and professionals develop the knowledge and skills to think green from start to finish, empowering and inspiring them to build truly sustainable homes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The House That She Built is inspired by and dedicated to the REAL women behind the home built exclusively by a team of women in construction, skilled tradeswomen, and women-owned companies. The House That She Built educates young readers about the people and skills that go into building a home. One by one, children learn about the architect, framer, roofer and many more as they contribute their individual skills needed to complete the collective project -- a new home. With illustrations that connect and empower and words that build upon each other with each page, this book will leave all kids (she, he, and they) excited about their own skills and interested in learning new ones. The ICC 700-2020 National Green Building Standard® (NGBS) is an American National Standards Institute (ANSI) --approved, residential building standard. This fourth edition was developed by an independent consensus committee of a broad range of stakeholders in partnership between the International Code Council and the National Association of Home Builders. The NGBS outlines a variety of green design and construction practices that can be incorporated into your single-family, multifamily, and mixed-use buildings, either for new construction or remodeling. The NGBS also includes green practices for land development projects as well as assisted living facilities, residential board, and care facilities, and group homes. The NGBS

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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 project at a level most appropriate for their business model, customer base and local housing market. A new compliance path (Certified) customized for single-family and townhome dwellings is added in the 2020 Edition. The NGBS also offers a compliance path for residential and mixed-use communities with four levels of land development practices, ranging from One-Star through Four-Star. The 2020 edition expands the application of innovative practices, offers additional options towards achieving certification, and builds upon a decade strong foundation of program use. The NGBS continues to provide architects, builders, and developers the flexibility needed to design and construct homes and mixed-use buildings that are sustainable, cost-effective and appropriate for a home's geographic location.

Sustainable building from the ground up - the pros and cons of the latest green and natural materials and technologies

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Examining the most important issues in achieving the goal of building more efficient and less damaging buildings, this book highlights the significant statutes and regulations as well as other legal issues that need to be considered when advising clients in the development, construction, financing, and leasing of a green building. Topics include federal incentive programs, financing, alternative energy, site selection, land use planning, green construction practices and materials, emerging legal issues, and the effects of climate change on planning and architectural design.

Engineers, architects and contractors seeking to expand their involvement in the green buildings market need a firm grounding in the marketing strategies and tactics which are being used most successfully in this specialized and growing field. This book is intended to serve as an effective tool for professional green building enthusiasts and advocates in presenting green design features, sustainable strategies and new products to the potential green building client. The author addresses key questions such as: How is green building marketing different from other types of professional service marketing? What tools and techniques from conventional marketing can be used to greater effect in marketing green buildings? What is the size and potential of the green buildings market? And how should a firm position itself to succeed in this growing marketplace? You'll find clear descriptions of successful strategies and approaches to marketing and selling green building-related services, as well as up-to-date information on the role of LEED® in green building projects.

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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. **Handbook of Green Building Design and Construction: LEED, BREEAM, and Green Globes, Second Edition**

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directly addresses the needs of building professionals interested in the evolving principles, strategies, and concepts of green/sustainable design. Written in an easy to understand style, the book is updated to reflect new standards to LEED. In addition, readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure, data centers, warehouses, and existing buildings. Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies that draws on over 35 years of personal experience from across the world

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