

Green Building Illustrated

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Green Building Illustrated by Francis D.K. Ching

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. [click to read more](#)

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This book represents a stunning and impressive effort in explaining green design concepts and specific methods in ways that are visually pleasing, and instantly accessible to both designers and non-designers alike. The clarity of the explanations are impeccable, and the illustrations are spot-on.

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Here we explored three neural network architectures illustrated in Figure 2: a) the multilayer ... (MLP); b) the convolutional neural network (CNN); and c) the deep tensor neural network (DTNN). Green circles to the left represent the molecular input and yellow circles to the right the output (here 16 excitation energies or the molecular excitation spectrum). The gray blocks are schematics for ...

Deep Learning Spectroscopy: Neural Networks for Molecular ...

This may be illustrated by considering the case of wind power, ... Green building has achieved a rapid growth as a result of growing public awareness of environmental impacts of the building stock ...

Comparative assessment of performance of foreign and local ...

Nanocomposite of SnO₂ and CuO allows detection of thermodynamically stable green house CH₄ at a low temperature of 100 °C. Strong improvement in sensor response over the single phase SnO₂ (<1%) for nanocomposite (>5%) is found to link with local structure formation of n-p junction as revealed by structural and current-voltage studies. Abstract; Full text PDF PDF References; Request ...

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Effect of clay functionally graded materials on dual ...

Annual Net Revenue (after tax) of wastewater operations of the Guangxi Green City (Nanning) Water Affairs Company (CNY million) Value (Quantitative or Qualitative) 134.1. 377.1. 424. Date achieved. 12/31/2008. 12/31/2015. 06/30/2016. Comments (incl. % achievement) 112% achieved. Indicator 32: Length of Fenghuang river rehabilitated (km) Value (Quantitative or Qualitative) 0. 3.21. 3.21. Date ...

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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.

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.

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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.

In 2000, Seattle, Washington, became the first U.S. city to officially adopt the U.S. Green Building Council's LEED (Leadership in Energy and Environmental Design) "Silver" standards for its own major construction projects. In the midst of a municipal building boom, it set new targets for building and remodeling to LEED guidelines. Its first LEED certified project, the Seattle Justice Center, was completed in 2002. The city is now home to one of the highest concentrations of LEED buildings in the world. *Building an Emerald City* is the story of how Seattle transformed itself into a leader in sustainable "green" building, written by one of the principal figures in that transformation. It is both a personal account—filled with the experiences and insights of an insider—and a guide for anyone who wants to bring about similar changes in any city. It includes "best practice" models from municipalities across the nation, supplemented by the contributions of "guest authors" who offer stories and tips from their own experiences in other cities. Intended as a "roadmap" for policy makers, public officials and representatives, large-scale builders and land developers, and green advocates of every stripe, *Building an Emerald City* is that rare book—one that is both inspirational and practical.

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 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.

Highlighted by more than 350 full-color photographs and 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.

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.

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 examples of successful integrated design implementation.

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