

Green From The Ground Up Sustainable Healthy And Energy Efficient Home Construction Builders Guide

Green from the Ground Up

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 from the Ground Up

This thorough, informative, and up-to-date reference on environmentally conscious, energy-efficient home construction gives builders and architects the tools to respond to growing requests from homeowners for green houses.

Making Better Buildings

Sustainable building from the ground up - the pros and cons of the latest green and natural materials and technologies From foundation to finish, a wealth of information is available on sustainable construction methods-entire volumes have been published on individual green and natural building techniques. But with so many different ideas to choose from, there is no single resource that allows an owner or builder to quickly and objectively compare the merits of each system for their particular project. Making Better Buildings cuts through the hype and provides the unvarnished facts about the upsides and downsides of the most widely discussed materials and technologies. Drawing on the real-world experiences of designer/builders, this comparative guide systematically and comprehensively examines each approach in terms of: Cost, sourcing, labor intensity, and ease of construction Energy efficiency, embodied energy, and environmental impacts Availability/accessibility Viable applications and future potential. Each chapter is rounded out by a chart which summarizes the material in a quick and accessible manner. Whether you are an owner preparing to build a green or natural home, or a conventional contractor determined to integrate sustainable alternatives into your existing construction practices, this up-to-the minute resource will help you make the best decisions for your project, while meeting your energy, efficiency, budgetary, and site-specific needs.

Green Home Building

A comprehensive guide to building green on any budget. According to conventional wisdom, building a green home is an expensive endeavor. The standard approach treats green as an add-on, tacking \"premium\" products, finishes, and equipment onto a traditional home design. As a result, many green home projects end up over budget or fail to achieve their environmental and performance goals. Green Home Building explodes the myth that green homes have to cost more. Using proven methods based on applied building science, the authors show how to: Lower base construction costs to provide funding for high performance upgrades Achieve a net-zero energy home, including \"zero-ing\" water, waste, carbon, and associated costs within fifteen years Live affordably into the future, despite anticipated rising costs for fuel, water, materials, taxes, and health care This comprehensive guide to building green on any budget defines the strategies that maximize the return on green investments. Written for anyone who has ever been swayed by the argument that the price tag limits how green a home can be, Green Home Building is a must-read for builders, contractors, architects, designers, and homeowners. Miki Cook is a green building and sustainability consultant who has dedicated her career to educating contractors and the public on the strategies, methods, and benefits of green homes. Doug Garrett has trained thousands of homebuilders, architects, and sub-contractors to build energy-efficient homes using applied building science to improve comfort, durability, and healthfulness while meeting or exceeding the energy code.

Building a Sustainable Home

The green building movement has produced hundreds of “how-to” books and websites that are filled with tips about green building and what homeowners should do to go green. While helpful and informative, when it comes to making actual purchasing and installation decisions, these books do not make it any easier for a homeowner to prioritize against a budget. Here, Schiffman shares her knowledge and experience for others to use in their journey toward a greener way of living. Whether the reader is building a new home or doing a minor remodel, a homeowner needs a framework by which to guide their decisions. These decisions are based on values, and the author posits that there are really only three reasons to go green: For Our Health: By building more sustainably, we reduce our exposure to harmful chemicals and toxins. For Our Wealth: By building a more durable home and being more efficient with resources like water and electricity, we reduce our monthly utility bills and ongoing maintenance expenses. For Our Soul: Collectively doing the right thing for our planet does make a difference—and that is soul-nourishing. Learn the logistics of choosing windows, insulation, appliances, and lighting. Find out about FSC certified wood and about using reclaimed materials. Here is everything you need to make your home sustainable.

The Green Self-build Book

Build your home the 'green' way to reduce running costs, be more self-sufficient and create a more comfortable home. Whether you want a turf roof, solar-powered hot water, or a super-insulated house, this book demonstrates that green is the way forward. Written by award-winning architect Jon Broome, The Green Self-Build Book provides an accessible overview of the different methods of sustainable and eco-friendly construction techniques. Covering the essential elements of design and the self-build process, this practical book includes information on sustainable foundations, floor finishes and insulation. Jon also shares insights on how to build for comfort and health. Inspiring case studies of green building projects using earth, straw, steel and timber are also included. Packed with attractive colour photos throughout, this is an essential resource for anyone who is planning a self-build project or involved in housing.

The Sustainable City X

Containing the proceedings of the 10th International Conference on Urban Regeneration and Sustainability this book addresses the multidisciplinary aspects of urban planning; a result of the increasing size of cities; the amount of resources and services required and the complexity of modern society. Most of earth’s population now lives in cities and the process of urbanisation continues generating many problems deriving from the drift of the population towards them. These problems can be resolved by cities becoming efficient habitats, saving resources in a way that improves the quality and standard of living. The process, however, faces a number of major challenges, related to reducing pollution, improving main transportation and infrastructure systems. New urban solutions are required to optimise the use of space and energy resources leading to improvements in the environment, i.e. reduction in air, water and soil pollution as well as efficient ways to deal with waste generation. These challenges contribute to the development of social and economic imbalances and require the development of new solutions. Large cities are probably the most complex mechanisms to manage. However, despite such complexity they represent a fertile ground for architects, engineers, city planners, social and political scientists, and other professionals able to conceive new ideas and time them according to technological advances and human requirements. The challenge of planning sustainable cities lies in considering their dynamics, the exchange of energy and matter, and the function and maintenance of ordered structures directly or indirectly, supplied and maintained by natural systems. Topics covered include: Urban Strategies; Planning, Development and Management; Urban Conservation and Regeneration; The Community and the City; Eco-town Planning; Landscape Planning and Design; Environmental Management; Sustainable Energy and the City; Transportation; Quality of Life; Architectural Issues; Cultural Heritage Issues; Intelligent Environment and Emerging Technologies; Planning for Risk; Disaster and Emergency Response; Safety and Security; Waste Management; Infrastructure and Society; Urban Metabolism.

Courtyard Housing and Cultural Sustainability

Cultural sustainability is a very important aspect of the overall sustainability framework and is regarded as the fourth pillar alongside the other three: environmental, economic, and social sustainability. However, the concept is neither fully explored, nor widely accepted or recognized. This book elicits the interplay of nature-culture-architecture and theorizes the concept of cultural sustainability and culturally sustainable architecture. It identifies four key themes in Chinese philosophy: Harmony with Heaven, Harmony with Earth, Harmony with Humans, and Harmony with Self, along with Greek philosopher Aristotle’s physics: form, space, matter, and time, it sets them as criteria to evaluate the renewed and new courtyard housing projects constructed in China since the 1990s. Using an innovative architectural and social science approach, this book examines the political, economic, social, and spatial factors that affect cultural sustainability. Supported by a multiplicity of data including: field surveys, interviews with residents, architects, and planners, time diaries, drawings, photos, planning documents, observation notes, and real estate brochures, the book proposes new courtyard garden house design strategies that promote healthy communities and human care for one another, a concept that is universally applicable. The volume is a first opportunity to take a holistic view, to encompass eastern and western, tangible and intangible, cultures in the theorization of cultural sustainability and culturally sustainable architecture. It is a

comprehensive contribution to architectural theory.

Reference Sources for Small and Medium-sized Libraries, Eighth Edition

Focusing on new reference sources published since 2008 and reference titles that have retained their relevance, this new edition brings O’Gorman’s complete and authoritative guide to the best reference sources for small and medium-sized academic and public libraries fully up to date. About 40 percent of the content is new to this edition. Containing sources selected and annotated by a team of public and academic librarians, the works included have been chosen for value and expertise in specific subject areas. Equally useful for both library patrons and staff, this resource Covers more than a dozen key subject areas, including General Reference; Philosophy, Religion, and Ethics; Psychology and Psychiatry; Social Sciences and Sociology; Business and Careers; Political Science and Law; Education; Words and Languages; Science and Technology; History; and Performing Arts Encompasses database products, CD-ROMs, websites, and other electronic resources in addition to print materials Includes thorough annotations for each source, with information on author/editor, publisher, cost, format, Dewey and LC classification numbers, and more Library patrons will find this an invaluable resource for current everyday topics. Librarians will appreciate it as both a reference and collection development tool, knowing it’s backed by ALA’s long tradition of excellence in reference selection.

Town and Terraced Housing

"Recent societal changes brought about renewed interest by architects, town planners and housing officials in terraced and row homes. This prototype whose origins date back several centuries offers relevant solutions to contemporary challenges. Chief among these challenges is a need to adopt sustainable approaches to the planning of neighbourhood and the design of dwellings. These homes built in higher densities help halt urban sprawl with its many negative traits and also contribute to the reduction of materials used in their construction, and once occupied - to their energy efficiency. Another aspect that occupies both housing providers and consumers is affordability. It has become highly difficult for first time homebuyers to purchase a dwelling in most urban centres. Due to their physical characteristics these narrow-frontage homes reduce the amount of land consumed and investments in costly infrastructure which makes them affordable. Society's rapidly changing demographic make-up is another trend which renewed interest in this prototype. There are more singles, single parents and childless couples who wish to reside in a ground-related dwelling rather than in an apartment. Over the years, the row or terraced home maintained its appeal by offering privacy and green yards in dense configuration. New challenges have given them renewed importance which makes this book on their design and planning highly relevant"

Toward a Zero Energy Home

The authors of "Green from the Ground Up" explore the design and construction of self-sufficient houses. With unequalled knowledge and a passion for the subject, the authors walk readers through the process of building and living in a truly green home.

Cities and Cultural Landscapes

Places are locations of value where psychological and cultural needs are satisfied. Human relationships with particular environments play a key role in motivating, developing, and nurturing the life of societies. Undifferentiated space becomes ‘place’ as we understand it better and its built and natural forms become endowed with value. However, misunderstanding the critical importance of heritage locations, particularly based on rejection of local and regional distinctiveness, has often led to their destruction. Featuring essays from across central Europe and beyond, and aimed at practitioners, decision makers and concerned citizens alike, this book raises awareness about the responsibility that we bear for every action taken that modifies the formal and socio-cultural context. Potentially, these actions can negatively impact the cultural landscape. Learning to recognize the essential value of heritage to the ‘place-ness’ of our cities and landscapes is vital in helping us to preserve and enjoy their intrinsic beauty and cultural importance.

Wind Energy for Power Generation

This far-reaching resource covers a full spectrum of multi-faceted considerations critical for energy generation decision makers considering the adoption or expansion of wind power facilities. It contextualizes pivotal technical information within the real complexities of economic, environmental, practical and socio-economic parameters. This matrix of coverage includes case studies and analysis from developed and developing regions, including North America and Europe, Asia, Latin America, the Middle-East and Africa. Crucial issues to power generation professionals and utilities such as: capacity credits; fuel saving; intermittency; penetration limits; relative cost of electricity by generation source; growth and cost trends; incentives; and wind integration issues are addressed. Other economic issues succinctly discussed inform financial commitment to a project, including investment matrices, strategies for economic evaluations, econometrics of wind energy, cost comparisons of various investment strategies, and cost comparisons with other energy sources. Due to its encompassing scope, this reference will be of distinct interest to practicing engineers, policy and decision makers, project planners, investors and students working in the area of wind energy for power generation.

Essential Sustainable Home Design

Design your own sustainable home Many people dream of building a beautiful, environmentally friendly home. But until now there has been no systematic guide to help potential builders work through the complete process of imagining, planning, designing, and building their ideal, sustainable home. Essential Sustainable Home Design walks potential homebuilders through the process starting with key concepts, principles, and a project vision that will guide the house to completion. Coverage includes: How to clarify your ideas and create a practical pathway to achieving your dream A criteria matrix to guide design, material, and systems decisions Creating a strong, integrated design team and working with professionals and code officials to keep the project on track from start to finish. Key building science concepts that make for a high-performance, durable building Primer on building logistics, material sourcing, and protocols to ensure that the initial vision for the project comes to fruition. One-page summaries and ratings of popular sustainable building materials and system options. Ideal for owner-builders and sustainable building contractors working with clients aiming to design and build a sustainable home. Chris Magwood has designed and built some of the most innovative, sustainable buildings in North America, including the first off-grid, straw bale home in Ontario. He is co-founder and director the Endeavour Centre for Innovative Building and Living and co-editor of the Sustainable Building Essentials series. Chris is the author of Essential Prefab Straw Bale Construction, Essential Hempcrete Construction, Straw Bale Details, More Straw Bale Building , and Making Better Buildings .

An Introduction to Green Homes

Explores careers in the construction industry in terms of the nature of the work, educational or training requirements, getting started, advancement, salary, employment outlook, and more.

Careers in Focus

Green. It conjures images of a meadow in spring for some, and the color of money for others. What does \"green\" have to do with our homes? In essence, green building-or sustainable building-means being smart about how we use energy, water, and building materials so that we can live well without needlessly damaging the environment. Creating a good green home isn't just about conservation, about using less or saving more-although that's certainly part of it. It's about creating better homes that are easier on the environment, less expensive over the long term, and more delightful to come home to. That's the message Jennifer Roberts wants to share in Good Green Homes, the ultimate new guide for people who want to live in comfortable, healthy, environmentally conscious homes. With some simple steps outlined in this book, you can save money, and do your part to help save the environment. For instance, using an energy-efficient light bulb saves you money. It also results in less demand for electricity, which in turn results in less pollution from power plants, which may help a child with asthma breathe a little easier. If you associate green-built housing with the unconventional or the quirky-tree houses, geodesic domes, dwellings constructed of tires or soda bottles-think again. Perfect for homeowners, remodelers, renters (who might be surprised by how much is within their power to change), architects, builders, and interior designers, this book lays out seven fundamental principles of green building, illustrated with more than 150 color and 20 black and white photographs of more than twenty-five homes. Jennifer Roberts launched two retail stores in San Francisco specializing in environmentally sensible consumer products, including household goods; and is a freelance writer and editor on topics that include energy-efficient building design and systems.

Good Green Homes

Written for students and practitioners in the fields of architecture and interior design, our new Architecture Brief Sustainable Design provides a concise overview of all the techniques available for reducing the energy footprint of structures and spaces. With clear, simple language and a practical \"can-do\" approach, author David Bergman covers everything from the profession's ethical responsibility, to design structures and spaces that sustain our natural resources, to specific considerations such as rainwater harvesting, graywater recycling, passive heating techniques, solar orientation, green roofs, wind energy, daylighting, indoor air quality, material evaluation and specification, and how to work with green building certification programs.

Sustainable Design

The key principles of designing a pleasant, comfortable and healthy eco-home, with a foreword written by HRH The Prince of Wales, now King Charles III. Designing an eco-home is much more about working with your house's location and situation than relying on intrusive technology and hi-tech materials. With the soaring energy bills and the climate crisis, it is now more important than ever to invest in a home that is considerate of keeping heat in. In this handbook, architect Christopher Day draws on his extensive experience to explain the key principles of eco-home design, using common-sense methods. Packed full of practical information, it includes several case studies of eco-homes, reviewing (with hindsight) what worked well and what could have been better. There is also guidance on how to generate energy, upgrading old buildings, and site planning. With beautifully hand-drawn illustrations, Christopher explores how to use local topography, combined with landscaping, to improve your home's microclimate and keep your house dry and warm in the winter, and cool in the summer. There are also handy tips on how to minimise hidden environmental impacts, and ideas on ways to make your home a safe and healthy place, both emotionally and physically. The Eco-Home Design Guide is essential for anyone who wants to create a attractive, environmentally friendly home that is in harmony with its location.

The Eco-Home Design Guide

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 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.

Green Building Materials

This book consists of 113 selected papers presented at the 2015 International Conference on Mechanical Engineering and Control Systems (MECS2015), which was held in Wuhan, China during January 23–25, 2015. All accepted papers have been subjected to strict peer review by two to four expert referees, and selected based on originality, ability to test ideas and contribution to knowledge. MECS2015 focuses on eight main areas, namely, Mechanical Engineering, Automation, Computer Networks, Signal Processing, Pattern Recognition and Artificial Intelligence, Electrical Engineering, Material Engineering, and System Design. The conference provided an opportunity for researchers to exchange ideas and application experiences, and to establish business or research relations, finding global partners for future collaborations. The conference program was extremely rich, profound and featured high-impact presentations of selected papers and additional late-breaking contributions. Contents:Mechanical Engineering and Manufacturing TechnologiesAutomation and Control EngineeringCommunication Networking and Computing TechnologiesSignal Processing and Image ProcessingPattern Recognition and Artificial IntelligenceMicro Electromechanical Systems Technology and ApplicationMaterial Science and Material EngineeringSystem Design and SimulationSustainable City and Sustainable Development Readership: Researchers and graduate students interested in mechanical engineering and control systems. Key Features:It is one of the leading international conferences for presenting novel and fundamental advances in the fields of Mechanical Engineering and Control SystemsThe proceedings put together the most up-

to-date, comprehensive and worldwide state-of-the-art knowledge in Mechanical Engineering and Control Systems Many of the articles are the output of research funded by Chinese research agencies, representing the state-of-the-art technologies in Chinese engineering R&D Keywords: Mechanical Engineering; Automation; Computer Networks; Signal Processing; Pattern Recognitions and Artificial Intelligence; Electrical Engineering; Material Engineering; System Design

Mechanical Engineering and Control Systems

This book is an illustrated practical design guide to delivering better energy performance in all types of new build homes. It takes the form of an annotated details book, with photos taken from live construction sites, with the content based around diagrams, drawings and photos by the author, which demonstrates valuable best practice knowledge and advice. Chapter 1 is an introduction to the performance gap and the quality of design and construction in new build homes, explaining the typical construction sequence of homebuilding, and highlights common issues that designers need to engage with. Chapters 2-7 look at each construction fabric in turn, including a series of detailed drawings, diagrams and photos illustrating the key elements of good design. Chapter 8 contains a checklist of all performance gap issues that designers need to look for. This book will provide valuable guidance to architects and designers on how to improve their detailing at construction stage, and therefore the overall quality of design and performance of new homes.

Designed to Perform

A guide to how prefabrication can assist those looking to build an energy-efficient home that won't break the bank. Prefabulous and Sustainable dispels the negative myths associated with prefab homes and shows the reader how beautiful and remarkably green these homes can be. In this unique, hands-on guide for homebuilders, author Sheri Koonen showcases twenty-five examples of how factory-built homes can be greener, more efficient, sturdier, and even more cost-effective than site-built homes. This practical manual gives you all the tools needed to customize a sustainable, prefab home at an affordable price. Koonen outlines the materials, strategies, and systems used to create a sustainable living environment. Stunning photography and user-friendly floor plans and resource guides prove that green living is not as complicated as one might think—and is attainable for everyone. Praise for Prefabulous + Sustainable “Authoritative and beautiful. Once again, Koonen builds her case for pre-fab thoroughly, and presents it in a compelling, well-organized package.” —Allen Norwood, NAREE Book Competition Head Judge “[Prefabulous + Sustainable] will soon become required reading for anyone interested in quality housing for the twenty-first century.” —Bob Berkebile, Fellow of the American Institute of Architects

Prefabulous + Sustainable

A guide to designing and building the environmentally friendly, energy efficient home of your dreams. More and more homeowners today want houses that are healthy to live in and cause minimal damage to the environment. That's what green building is all about. Your Green Home is written for homeowners planning a new home—whether you are working with an architect or builder, or serving as your own general contractor. Intended to improve the overall environmental performance of new houses being built, the book sets out to answer some of the big-picture questions relating to having a home designed and built-and getting what you want. Your Green Home covers: Home location and its relationship to the community Site design Construction systems Building design to optimize energy performance Renewable energy systems Material selection Indoor environmental quality Water efficiency Material selection Written by the founder of BuildingGreen—North America's premier green building authority—this book will prove useful not only to future homeowners, but also to designers and builders seeking to meet this demand. Building professionals well-versed in green building may find this a useful book to give to potential clients to convey the scope and principles of green building.

Your Green Home

Trust a librarian to help you find books you'll want to read Library Lin's Curated Collection of Superlative Nonfiction is a librarian's A-list of nonfiction books organized by subject area—just like a library. Linda Maxie (Library Lin) combed through 65 best books lists going back a century. She reviewed tens of thousands of books, sorted them according to the Dewey Decimal Classification system, and selected an entire library's worth for you to browse without leaving home. Here you'll find • Summaries of outstanding titles in every subject • Suggestions for locating reading material specific to your needs and interests In this broad survey of all the nonfiction categories, you will find titles on everything from the A-bomb to Zen Buddhism. You might find yourself immersed in whole subject areas that you never thought you'd be interested in.

Library Lin's Curated Collection of Superlative Nonfiction

The essential guide to hempcrete - a strong, versatile, environmentally friendly, energy-efficient natural insulating material Hempcrete is a versatile, energy-efficient natural insulation material, useful for walls, roofs and floors. Made from the inner stem of the hemp plant mixed with a lime-based binder, it is a very strong, lightweight and breathable alternative to manufactured insulations. Essential Hempcrete Construction is a fully illustrated practical guide to this affordable, renewable method, from procurement to finishing. Going well beyond the scope of many natural building books, this indispensable manual includes a complete introduction to hempcrete, packed with all the information you need to determine whether it's the right choice for your project. It covers: Material specifications, testing and building code references and climate data Detail drawings for design reference Tool lists, and complete step-by-step instructions for mixing and placing hempcrete Finishing and maintenance techniques Budgeting and labor estimates Additional resources. Essential Hempcrete Construction is part of New Society's Sustainable Building Essentials Series. Series editors Chris Magwood and Jen Feigin have scoured the world of sustainable building to bring you the techniques and systems that deliver measureable benefits in terms of greater energy efficiency and reduced environmental impact. Written by the world's leading sustainable builders, designers and engineers, these succinct, user-friendly handbooks are indispensable tools for any project where accurate and reliable information are key to success. Get the Essentials!

Essential Hempcrete Construction

This book presents an international look at sustainable home design, it explores a compelling range of design styles and cutting-edge green technologies. The rising cost of fuel and the growing commitment to protect the environment have sparked exciting innovations in prefab home construction around the world. Showcasing many of the unlimited possibilities offered by prefabrication to build incredibly energy-efficient homes, Prefabulous World features fifty sophisticated examples of eco-friendly home design around the globe. With detailed floor plans, multiple gorgeous images of the exterior and interior of each home, and an extensive resource section listing architects, builders, and suppliers, this book is a vibrantly illustrated yet practical guide that reveals how living in a beautiful, well-built, energy-efficient home is achievable for us all, no matter where we live.

Sustainable Industries Journal

A beautiful, user-friendly overview to building more energy-efficient and environmentally friendly homes using prefabrication. Prefabulous + Almost Off the Grid explores the many ways of using prefabrication to build beautiful homes that are not only environmentally friendly, but also incredibly energy efficient. Profiling more than thirty of the most energy-efficient homes in the United States, this user-friendly guide reveals how homebuilders can achieve similar results—whether they want to earn an advanced green certification or just incorporate a few energy-saving measures—with the help of floor plans, detailed resource lists, explanations of the latest technologies, and brilliant photographs. Author Sheri Koonen shows that building green doesn’t have to be more expensive, and in fact, can lead to dramatic savings. Koonen’s almost-off-the-grid homes, which take energy from the grid when necessary and return any excess energy produced, are healthier, quieter inside, and far cheaper to operate. As energy costs continue to rise, energy independence is becoming increasingly essential, and as this guide shows, the almost-off-the-grid home is a solution that is achievable for everyone. Recipient of the 2013 Robert Bruss Gold Book Award from the National Association of Real Estate Editors (NAREE) Praise for Prefabulous + Almost Off the Grid “The time has come to throw out the old stereotypes and to embrace prefab building techniques as the way of the future?and the best approach for today. For anyone wanting to create a house that’s sustainable in every sense of the word, this book is an excellent place to start.” —Sarah Susanka, architect and author of The Not So Big House series “You can build a high quality, environmentally friendly and efficient home at a reasonable price with a look and feel of a traditional home. Advancements like those used in our house and the other houses in this book will transform the homebuilding industry.” —Christine Todd Whitman, former governor of New Jersey and administrator of the Environmental Protection Agency “This is an easy-on-the-eyes guide that includes floor plans and multiple images of the exterior and interior of each home. It is not a manual for green construction, but a general overview of aspects of prefab and green construction. And it does that well.” —Natural Life magazine

Prefabulous World

Unlock the Blueprint to Building a Sustainable Haven In \"Sustainable Sanctuary,\" Embark On A Transformative Journey That Goes Beyond Mere Construction, Guiding You Toward The Forefront Of Eco-Friendly Design And Conscious Living. This comprehensive guide is your compass to crafting homes that seamlessly harmonize with the environment, embodying principles of sustainability, energy efficiency, and mindful well-being. Key Features: Master the Foundations of Green Building: Delve into the principles that underpin eco-friendly construction, from selecting sustainable materials to designing for optimal energy efficiency. Harness the Power of Passive Solar Design: Learn how to maximize natural heating and cooling through strategic orientation, utilizing sunlight to reduce energy consumption. Integrate Renewable Energy: Discover the art of seamlessly incorporating solar panels, wind turbines, and other renewable sources, achieving energy independence

and reducing reliance on the grid. Master Water Management: Implement rainwater harvesting and greywater recycling systems, minimizing water consumption and environmental impact. Explore Sustainable Materials: Dive into the world of reclaimed wood, bamboo, recycled metal, and other eco-friendly options, understanding life cycle analysis to make informed choices. Embrace Conscious Living: Uncover tips for ongoing maintenance, energy-efficient operation, and fostering a sense of community around sustainable lifestyles. Why Choose \"Sustainable Sanctuary\"? With practical insights, real-world examples, and expert guidance, this guide empowers builders, homeowners, and eco-enthusiasts to create not just houses, but sanctuaries that echo with the promise of a greener, healthier future. Join the movement to build more than structures--build sustainable sanctuaries that leave a lasting legacy for generations to come. Elevate your understanding of sustainable construction and design, and embark on a journey that transforms not only the spaces we inhabit but the very essence of how we coexist with our planet. \"Sustainable Sanctuary\" is your gateway to building a better, more harmonious world--one sustainable home at a time.

Prefabulous + Almost Off the Grid

An inspiring instructional handbook for transforming idealism into social change The pursuit of freedom and justice is a timeless one, but new activists may not know where to begin, while more experienced ones often become jaded or fatigued. The task of constructing a new society, free from oppression and inequality, can be overwhelming. Tools for facilitating motivation, engagement, and communication can mean the difference between failure and success for activists and social movements. Educating for Action collects the voices of activists whose combined experience in confronting injustice has generated a wealth of key insights for creating social change. This practical guide explores such topics as: Community activism and direct democracy Conflict negotiation, communication, and rhetoric Law, the educational system, and lifestyle activism Social media skills, conference planning, and online organizing Written in an inspirational tone, Educating for Action consciously straddles the line between street activism and classroom instruction. Bridging the gap between these two worlds makes for an engaging and instructive manual for social justice, helping students, teachers, and larger activist communities turn their idealism into action. Jason Del Gandio is a scholar-activist and assistant professor of rhetoric and public advocacy at Temple University. He is the author of Rhetoric for Radicals: A Handbook for 21st Century Activists . Anthony J. Nocella II is a scholar-activist and senior fellow of the Dispute Resolution Institute at the Hamline Law School. He is a long-time anti-racism, youth justice, prison abolition, hip hop, animal, disability, and Earth liberation activist and has published over fifty scholarly articles and book chapters and sixteen books.

Sustainable Sanctuary

GREEN BUILDING: PRINCIPLES AND PRACTICES IN RESIDENTIAL CONSTRUCTION, International Edition 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.

Energy-Wise Landscape Design

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 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.

Green Building

It's easy building green! This guide helps environmentally conscious people make real-world decisions about building or remodeling a home. Readers will find information on how to save money by going green when building or remodeling, how to find the right green integrated system design, how to choose heating and cooling equipment, and how to save money on water. - Focuses on the design integration of green materials - Residential and commercial green building will grow from 2% of the U.S. construction market in 2005 to as much as 10% in 2010 (NAHB) - More than 80 regional and local green building programs are in place in the U.S. and more are being promoted in the private sector

Green Building and Remodeling For Dummies

How do we ensure sustainable buildings perform as intended? The performance gap between predicted and actual energy use in new homes has been identified as key problem by government and industry experts. This updated edition is an illustrated practical design guide to delivering better energy performance in all types of new build homes. It introduces readers to the concept of the performance gap and highlights clear issues and solutions to help architects improve their detailing at design stage. The book: Features annotated details with photos taken from live construction sites Includes accessible practical guidance for busy practitioners Raises construction quality and performance of new homes Promotes the case for more architect supervision throughout the construction process A new chapter features innovative low carbon building methods, including hempcrete blocks, clay blocks and straw bale. All information has been updated to reflect the latest data with fresh details and technologies.

Home Power

A unique cost reference, updated and expanded, for architects, engineers, contractors, building owners, and managers Green building is no longer a trend. Since the publication of the widely read first edition of this book, green building has become a major advancement in design and construction. Building codes and standards have adopted much stricter energy efficiencies. Businesses, institutions, and communities have discovered huge savings, along with health and marketing advantages, in sustainable building. Private facilities, as well as public buildings for Federal, state, and local governments are increasingly required to design and build sustainably in both new construction and renovation. This Third Edition has been updated with the latest in green building technologies, design concepts, standards, and costs. The chapters, case studies, and resources give you practical guidance on green building, including the latest on: Green building approaches, materials, rating systems, standards, and guidelines Energy efficiencies, implementing energy modeling tools Designing and specifying, as well as commissioning, green building projects Often-specified products and materials, as well as a sample spec Goals and techniques for health, comfort, and productivity Evaluating the cost versus value of green products over their life cycle Low-cost green strategies, and special economic incentives and funding Building deconstruction and cost considerations With a new chapter on greening of commercial real estate, this reference is a one-stop resource for the latest in green building approaches and implementation. The contributors, all prominent leaders in green building, include: Mark Kalin, FAIA, FCSI, author of the original GreenSpec Andy Walker, Ph.D., PE, senior engineer with NREL Joseph Macaluso, AACE, certified cost consultant

The Complete Idiot's Guide to Green Building and Remodeling

All about energy efficient home design - building enclosures, product selection and energy efficiency strategies. For beginners and owner-builders, green building is a sustainable construction method that has a low impact on the environment. Green buildings usually incorporate LEED standard construction requirements in order to become certified; however, a homeowner can be an \"owner builder\" and construct their own home without the need of hiring a General Contractor in many cases. The energy efficiency of a home, when designed well, can be as much as 90% efficient, cutting utility bills to an extreme.A tiny house or small \"core house\" (with all the living essentials--kitchen, bath, living/sleeping area) can be designed into the floor plan wall system so the owner-builder can add on extra bedrooms later on. Energy efficient homes that are truly sustainable incorporate superinsulation and thermal mass along with passive solar home design, and this book explains how to do that. And interestingly it is easy to understand.

Designed to Perform

A clear guide to designing and preparing to build a superior performing and supremely comfortable green home. Written in easy to follow step-by-step detail, this illustrated pre-construction guide offers design checklists and sound, realistic information for DIYers, as well as those hiring architects or contractors. Experienced green home owners-designers-builders, Shannon Scott and Rob

Pogoda, explain what to consider and do to create an environmentally responsible, economically smart, and healthy green home from the ground up. Learn the why and how of: selecting an eco-friendly and energy smart building site; incorporating passive solar features; developing functional and artful floor plans; choosing quality windows; determining solid foundations and roof styles; finding green construction materials; decreasing potable water use; minimizing materials' costs and construction waste; ensuring healthy indoor environments; making a home beautiful; saving money; and much more.

Green Building

Today, a new generation of architects and builders is emerging, intent on creating homes that meet human needs for shelter while causing only a fraction of the environmental impact of conventional housing. The New Ecological Home provides an overview of green building techniques, materials, products, and technologies that are either currently available or will be in the near future. Author Daniel Chiras provides a wealth of up-to-date, practical information for home buyers, owner-builders, and anyone interested in building for a sustainable future.

The Essential Manual to Designing Energy Efficient Green Home

Creating a Green Home

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