



**The  
Green Building Handbook**  
**South Africa Volume 12**  
**The Essential Guide**



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# Green Building Manual

**Manfred Hegger, Matthias  
Fuchs, Thomas Stark, Martin Zeumer**

## **Green Building Manual:**

**Green Building Materials** Ross Spiegel, Dru Meadows, 2010-10-19 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

**The Complete Idiot's Guide to Green Building and Remodeling** John Barrows, Lisa Iannucci, 2009-01-06 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

[The Green Building Materials Manual](#) Hannah Rae Roth, Meghan Lewis, Liane Hancock, 2021-03-25 Evaluating building materials for environmental sustainability is a complex prospect How do governmental agencies and the design industry actually measure sustainable initiatives and environmental impacts This book breaks down the technical vocabulary and principles that define environmentally sustainable choices across interior and exterior architectural products to help the reader understand Material ingredient selection Energy and water use Emissions including greenhouse gases Human health and toxicity Social accountability assessment This guide explains the structure of green certifications standards and ecolabels life cycle

assessment environmental regulations and more It presents a historic timeline for context and a snapshot of current trends and future objectives It is a comprehensive reference for interior designers architects building owners contractors and students enrolled in interior design and architecture

**Sustainable Building Technical Manual** ,1996 **Sustainable Building Technical Manual** ,1996 **Energy Manual** Manfred Hegger,Matthias Fuchs,Thomas Stark,Martin Zeumer,2012-12-10 While the efficiency and sustainability offensive is in full swing in most sectors of the economy in the construction sector it is still in its very beginnings economically as well as ecologically However politicians and policymakers at the global European and national levels have begun to address this deficit and are seeking to correct it with legal requirements and laws like EnEV building certifications and competitions Following the proven model of earlier manuals in the series the Energy Manual presents a comprehensive look at the constructional parameters of energy efficiency and sustainability It offers an advance look at the legal regulations being planned by the EU and as a tool ready for immediate use by architects engineers and designers in their daily work it points the way toward the efficient and sustainable construction and operation of buildings With its focus on the entire lifecycle of a building it provides an integrated perspective a necessary prerequisite for sustainable economic management

**A Comprehensive Manual on Building Energy-Efficient Green Homes** Nelson W Jackson,2024-02-09 In an era marked by environmental consciousness and the imperative for sustainable living the concept of home has evolved It is no longer just a place of shelter it has become an emblem of our commitment to a harmonious coexistence with the planet we call home The emergence of energy efficient green homes stands as a testament to this profound transformation The need for energy efficient green homes has never been more pressing Our planet faces the challenges of climate change resource depletion and environmental degradation The way we design build and inhabit our homes has a profound impact on these global issues Energy efficient green homes represent a ray of hope offering a pathway towards a more sustainable future We intend to extend our focus to the outdoors exploring the principles of sustainable landscaping rainwater harvesting native plant gardens and permeable surfaces The outdoor environment of green homes is an extension of their sustainability contributing to biodiversity preservation and water conservation The heart of this book lies in where we present real world examples of energy efficient green homes Through case studies of passive solar straw bale houses you will witness the principles and concepts discussed in earlier chapters come to life These homes built with passion and a commitment to sustainability serve as inspiring models for a greener future Let us embark together on a voyage through the world of energy efficient green homes a world where innovation meets tradition where conservation meets comfort and where every brick every beam and every beam of sunlight contributes to a brighter greener tomorrow

**Green Building** Anthony C. Floyd,Allan Bilka,2012 The cutting edge green building projects of today are quickly becoming standard practice for tomorrow In order for industry professionals to keep up with this trend they ll need to have a solid grasp on green building and the technologies market forces and governmental

policies that drive it Green Building A Professional's Guide to Concepts Codes and Innovation is designed for those seeking a better understanding of current design and building performance issues Coverage includes straightforward explanations of 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 Knowledge is essential for environmentally appropriate and efficient building solutions Readers of this book will have a better understanding of where the building industry is headed and how to become compliant with green practices and regulations Check out our app DEWALT Mobile Pro™ This free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add ons To learn more visit dewalt.com/mobilepro

*Sustainable Landscape Construction, Third Edition* Kim Sorvig, J. William Thompson, 2018-02 Basic principles Sustainability in context Principle 1 Keep healthy sites healthy Principle 2 Heal injured soils and sites Principle 3 Favor living flexible materials Principle 4 Respect the waters of life Principle 5 Pave less Principle 6 Consider origin and fate of materials Principle 7 Know the costs of energy over time Principle 8 Celebrate light respect darkness Principle 9 Quietly defend silence Principle 10 Maintain to sustain Principle 11 Demonstrate performance learn from failure Sustaining principles evolving efforts

**The Integrative Design Guide to Green Building** 7group, Bill Reed, 2009-04-13 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 introduce 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 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

*Green by Design*, 2005\* A guide to building new construction or remodeling residential or commercial

*The 15-Minute Guide To Green Building* Sarah Jameson, 2023-11-01 Unlock the secrets of sustainable construction with *The 15 Minute Guide to Green Building* This essential guide is your ticket to understanding and

implementing eco friendly building practices ensuring that you re not just building structures but you re also nurturing our planet Designed to be your friendly companion this book simplifies the complexities of green building turning them into easy to digest actionable insights Whether you re a homeowner contractor or an eco curious learner you ll find valuable knowledge tailored just for you We ll navigate through essential topics such as choosing sustainable materials innovative energy saving techniques and cost effective strategies that won t break the bank Drawing from a rich well of expertise and experience in real estate and sustainable construction this guide offers a practical and engaging journey through the world of green building Each page is crafted to resonate with you speaking a language that s not only easy to understand but also inspires action towards creating breathtaking and functional sustainable buildings Embark on a transformative journey that goes beyond conventional building practices The 15 Minute Guide to Green Building is more than just a book it s a step towards a future where every building is a beacon of sustainability and a testament to our commitment to the environment Dive in explore and let s build a greener world together [Green Building Materials](#) Ross Spiegel,Dru Meadows,2012

Beskrivelse 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 *Building an Emerald City* Lucia Athens,2012-06-22 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

Green Building Guidelines Sustainable Buildings Industry Council,2004 Green Building Guidelines Meeting the Demand for Low Energy Resource Efficient Homes was developed by a committee of builders both members and non members of NAHB architects building scientists product manufacturers and others over a 21 2 year period 19982001 Their work was supported by DOE's Building America Program through the National Renewable Energy Laboratory The manual is published by the Sustainable Buildings Industry Council and is used in a workshop or seminar setting or as a stand alone document It is a brief simple to read builder friendly text that is applicable to homebuilders anywhere across the nation who are interested in exploring the notion of rethinking some of the design issues in their current product The Green Building Guidelines manual is now in its fourth edition It has been updated and reorganized a bit to make topics easier to find Weve also added two new sections The Whole Building Approach and The Building Envelope The Guidelines are intended to be national in scope and as a result the construction information and example details may not fit all climates or circumstances The text has been organized to acquaint the reader with basic concepts and provide resources where more detailed information can be located At the end of each section readers 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 Complete Guide to Green Building & Remodeling Your Home* Martha Maeda,2011 In today s economy and socially conscious environment regarding the environment many people cannot afford not to start considering ways they can build or remodel their home to ensure it is green With scientific sources such as the UN council on global warming making statements about the degradation of ice flow and environmental conditions by 2050 and the likelihood that crude oil sources will be used up within the next fifty years it is especially necessary for young families to consider the implications of re-examining their homes and living situations to be more green This book will guide you and your family through the process of learning more about and implementing the necessary changes and perspectives needed to change your home or build a new home that is environmentally conscious and prepared for the changing economic and environmental climate in the coming decades You will learn why people have started to build green and how it can be done in today s regulatory and cost conditions quickly and inexpensively You will learn how to remodel with green in mind and how to start working with building professionals that

can provide the necessary materials plans and paperwork you need to proceed You will learn which materials are best for green building by lifespan and how to choose between various green materials You will learn how to not only use green materials but to make sure the construction process is green as well You will learn the basics of framing your building natural building methods the energy systems you might use and the heating cooling options at your disposal Construction and environmental experts have been interviewed and their expertise is included in this book to help you learn everything you need to accomplish the above as well as to know what kinds of water and waste systems are best how to site plan and landscape your home and what the most common myths about green building are You will learn ten things you can do on any building project to keep it green and any materials you should always have on hand for anything you do around the house Regardless of whether you are just looking to remodel to make your house greener or are building a new home this book will give you everything you need to stay green and respect the environment with your home

**Marketing Green Buildings** Jerry Yudelson,2006 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 R in green building projects

**Green Building Advisor** ,1998 This software program is intended to help architects designers planners students and educators design new buildings and retrofit existing buildings to be environmentally friendly

**The Pennsylvania Green Building Operations and Maintenance Manual** ,200? [Green Building and Sustainable Development](#) Jonathan E. Furr,2009 The legal and economic landscape for building and development have fundamentally been altered by the country s major environmental problems climate change deforestation loss of biodiversity ozone depletion pollution and unsustainable natural resource consumption rates The editors provide practical information for lawyers to assist their clients in fully understanding green building and sustainable development concepts so they can operate successfully in the evolving economic and regulatory environment while minimizing the potential cost penalty of business as usual practices

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