

A GUIDE TO GREEN BUILDING

FUNDAMENTALS OF SUSTAINABLE
DESIGN AND CONSTRUCTION

"IF ALL OF US ACTED IN MORAL UNISON, AS I ACT INDIVIDUALLY, THERE
WOULD BE NO WARS AND NO POVERTY. I HAVE MADE MYSELF PERSONALLY
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WAY."

- ANAIS NIN

BY LONG WAY HOME, INC.

Green Building Manual

Vaughn Bradshaw



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Handbook of Green Building Design and Construction Sam Kubba, 2012-06-26 Creating contract plans and specifications to ensure building performance *Green Building Materials* Ross Spiegel, Dru Meadows, 2010-11-09 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 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 **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

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 *Sustainable Building - Design Manual*, 2004-01-01 The second volume targets practitioners and focuses on the process of green architecture by combining concepts and technologies with best practices for each integral design component

Green Building Handbook: Volume 1 Tom Woolley, Sam Kimmins, Rob Harrison, Paul Harrison, 2002-09-11 Environmentally responsible building involves resolving many conflicting issues and requirements Each stage in the design process from the fundamental decisions about what where and even whether to build has implications for the environment Evolving out of the success of *Green Building Digest* a publication described by *Building Design* as well researched authoritative and exhaustive this practical new handbook considers the environmental issues which relate to the production use and disposal of key building products and materials It is designed to help specifiers and purchasers gain awareness of the potential environmental impact of their decisions Chapter by chapter *Green Building Handbook* looks at a different sector of the trade from flooring to roofing comparing the environmental effects of commonly available products with less well known green alternatives A Best Buy section then ranks these products from lowest to highest impact *Sustainable Building Technical Manual*, 1996

The Green Roof Manual Linda McIntyre, Edmund C. Snodgrass, 2010-08-11 Green roofs the ultimate in sustainable building practices continue to generate enormous interest and enthusiasm among architects landscape designers and urban planners Increasingly strict stormwater

regulations and the appeal of LEED related projects have also boosted the popularity and desirability of green roofs Those who want to build green roofs however have few resources to guide them Until now no book has taken a comprehensive look at how to effectively adapt green roof technology to the variable and extreme North American climate and how to design projects that will function and endure as successfully as those in Germany Switzerland and other European countries This book fills the gap by providing an overview of practices and techniques that have been effective in North America The authors offer options regarding structure function horticulture and logistics as well as surveys of actual projects and analyses of why they have or haven't succeeded Approachable and reader friendly the manual clearly explains how these complex systems function and how to plan and carry out projects successfully from concept through construction and maintenance Ideally suited to professionals including architects landscape architects engineers and designers and their clients it brings together key lessons from leaders in the field Numerous photographs highlight the range of design possibilities and show green roofs both during construction and at various stages of maturity At last those seeking basic information about how to design and build green roofs have a concise authoritative guide to this exciting new technology

Sustainable Building Technical Manual, 1996 **Energy Manual** Manfred Hegger, Matthias Fuchs, Thomas Stark, Martin Zeumer, 2012-12-10

Während die Effizienz und Nachhaltigkeitsoffensive in den meisten Wirtschaftsbereichen in vollem Gang ist steht das Bauen damit noch ganz am Anfang ökonomisch wie ökologisch Die Politik auf globaler europäischer und nationaler Ebene nimmt sich dieses Defizits inzwischen zunehmend an und versucht es durch rechtliche Anforderungen und Gesetze wie EnEV Gebäudezertifizierungen und Wettbewerbe wettzumachen Der Energie Atlas gibt in der bewährten Form der Atlanten eine umfassende Darstellung der konstruktiven Parameter von Energieeffizienz und Nachhaltigkeit wieder Er nimmt die von der EU geplanten gesetzlichen Regulierungen vorweg und weist als unmittelbar verwendbare Arbeitshilfe für die tägliche Arbeit von Architekten Ingenieuren und Designern den Weg zu effizientem und nachhaltigem Bauen und Betreiben von Gebäuden Mit seiner Orientierung am gesamten Lebenszyklus eines Gebäudes leistet er eine ganzheitliche Betrachtung eine unverzichtbare Voraussetzung für nachhaltiges Wirtschaften

Green Building Handbook Tom Woolley, 1997 Learning how to construct more environmentally friendly buildings is increasingly a commercial and legal necessity This new handbook provides a detailed reference for environmentally concerned purchasers of building products complementing the Green Building Handbook Volume 1 Invaluable for the specifier this companion handbook will be useful to all those interested in finding greener ways of designing and making buildings Book Jacket [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

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The Law of Green Buildings J. Cullen Howe, 2010 Examining the most important issues in achieving the goal of building more efficient and less damaging buildings this book highlight 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

Green Building Handbook Tom Woolley, Sam Kimmins, 1999

The Building Environment Vaughn Bradshaw, 2010-09-29 Get the updated guide to active and passive control systems for buildings To capitalize on today s rapidly evolving specialized technologies architects designers builders and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building The Building Environment Active and Passive Control Systems Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort safety and energy efficiency of buildings From active HVAC systems to passive methods lighting to on site power generation this updated edition explains how to strategically plan for and incorporate effective efficient systems in today s buildings It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world s environment The Building Environment goes beyond the ABCs of HVAC and covers On site power generation including wind turbines solar photovoltaic cells fuel cells and more Plumbing systems fire protection signal systems conveying systems and architectural acoustics Procedures and or formulas for performing heat loss heat gain and energy use calculations determining the rate of heat flow calculating solar energy utilization doing load calculations and more Details on the latest building codes and standards references New information on the sustainable design of building systems and energy efficiency including new technologies The latest thinking and data on a building s impact on the environment indoor air quality and sick building syndrome Design economics including the payback period life cycle cost comparative value analysis and building commissioning A practical on the job tool for architects designers builders engineers contractors and other specialists this Third Edition is also a great reference for architecture students who will lead tomorrow s design teams

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