



Second Edition

HANDBOOK OF
Green Building Design
and Construction

LEED, BREEAM, and Green Globes

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Ph.D., LEED AP

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Green Building Design And Construction

Sam Kubba



Green Building Design And Construction:

Handbook of Green Building Design and Construction Sam Kubba, 2012-10-11 Packed with conceptual sketches and photos real world case studies and green construction details Handbook of Green Building Design and Construction provides a wealth of practical guidelines and essential insights that will facilitate the design of green buildings Written in an easy to understand style the Handbook draws on over 35 years of personal experience across the world offering vital information and penetrating insights into two major building rating systems such as LEED and BREEAM both used extensively in the United States Europe Asia and the Middle East Develop a project schedule that allows for systems testing and commissioning Create contract plans and specifications to ensure building performance A step by step approach for integrating technologies into the different stages of design and execution

Sustainable Construction Charles J. Kibert, 2016-03-29 The leading green building reference updated with the latest advances in the field Sustainable Construction is the leading reference for the design construction and operation of high performance green buildings With broad coverage including architecture engineering and construction this book nevertheless delivers detailed information on all aspects of the green building process from materials selection to building systems and more This new fourth edition has been updated to reflect the latest codes and standards including LEED v4 and includes new coverage of carbon accounting The discussion has been updated to align with the current thinking on economics climate change net zero buildings and more with contributions by leaders in the field that illustrate the most recent shifts in thinking and practice Ancillary materials including an instructor's manual and PowerPoint presentations for each chapter help bring this clear and up to date information into the classroom making this book a valuable reference for working construction professionals Also Interactive graphics found throughout the course help activate the content and highlight key concepts for students Sustainable construction has gone mainstream and will one day be the industry norm This book provides a comprehensive reference to all aspects of a project to show you how green building concepts and principles apply throughout the design and construction process Get up to date on the latest green building codes and standards Learn about the newest technology in green building materials Adopt the best practices in procurement and delivery systems Apply sustainability concepts to all aspects of construction and design Green buildings operate at a very high level of efficiency which is made possible only by careful consideration every step of the way Appropriate land use landscaping construction materials siting water use and more all play a role in a structure's ultimate carbon footprint Sustainable Construction provides clear guidance for all aspects of green building including the most recent advances and the latest technology

Fundamentals of Integrated Design for Sustainable Building Marian Keeler, Bill Burke, 2015-02-05 Fundamentals of Integrated Design for Sustainable Building offers an introduction to green building concepts as well as design approaches that reduce and can eventually eliminate the need for fossil fuel use in buildings while also conserving materials maximizing their efficiency protecting the indoor air from chemical intrusion and reducing the

introduction of toxic materials into the environment It represents a necessary road map to the future designers builders and planners of a post carbon world from the Foreword by Ed Mazria A rich sourcebook covering the breadth of environmental building Fundamentals of Integrated Design for Sustainable Building introduces the student and practitioner to the history theory and technology of green building Using an active learning approach the concepts of sustainable architecture are explained and reinforced through design problems research exercises study questions team projects and discussion topics Chapters by specialists in the green movement round out this survey of all the important issues and developments that students and professionals need to know From history and philosophy to design technologies and practice this sweeping resource is sure to be referenced until worn out **Green Building Illustrated** Francis D. K. Ching, Ian M. Shapiro, 2020-11-19

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 **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

Guide to Green Building Rating Systems Linda Reeder,2010-03-29 The one stop guide for choosing a green building rating system Today sustainability is a growing concern for the architects designers builders and owners of commercial and residential buildings Meeting the requirements of a rating system provides a metric to evaluate and set priorities But the variety and complexity of methods available to assess the eco friendliness of a building can seem overwhelming Guide to Green Building Rating Systems informs readers about the rating system selection process Comparing essential issues such as cost ease of use and building performance this book offers solid guidance that will help readers find the rating system that best fits their needs This easy to follow reference includes An overview of the major national rating systems including LEED Green Globes the National Green Building Standard and ENERGY STAR An in depth look at each rating system including its evolution objectives point structure levels of certification benefits and shortcomings How the ratings systems work for different types of buildings commercial multi family residential and single family residential construction Illustrated case studies from different climate regions with project descriptions cost data and lessons learned by design teams constructors and owners An overview of local regional and international rating systems Guide to Green Building Rating Systems demystifies complex material making this book an essential reference for building professionals engaged in or wishing to pursue sustainable building practices

Green BIM Eddy Krygiel,Brad Nies,2008-04-11 Meet the challenge of integrating Building Information Modeling and sustainability with this in depth guide which pairs these two revolutionary movements to create environmentally friendly design through a streamlined process Written by an award winning team that has gone beyond theory to lead the implementation of Green BIM projects this comprehensive reference features practical strategies techniques and real world expertise so that you can create sustainable BIM projects no matter what their scale

Green Building Design and Construction ,2011 **Handbook of Green Building Design and Construction** Sam Kubba,2016-10-25 Handbook of Green Building Design and Construction LEED BREEAM and Green Globes Second Edition directly addresses the needs of building professionals interested in the evolving principles strategies and concepts of green sustainable design Written in an easy to understand style the book is updated to reflect new standards to LEED In addition readers will find sections that cover the new standards to BREEAM that involve new construction

Infrastructure data centers warehouses and existing buildings Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies that draws on over 35 years of personal experience from across the world

Marketing Green Building Services Jerry Yudelson, 2008 Marketing Green Building Services Strategies for Success presents all the information key decision makers need to respond to the fast growing market for green buildings design and construction services and products Completely updated revised and expanded from the author's previous works this book is the one resource you need to succeed in the green building marketplace With a sound grounding in contemporary marketing theory and practice the book assembles hard to find information to assist executives and partners in design and construction firms in crafting competitive strategies that build on their firm strengths while shoring up their weaknesses Since most design and construction firms specialize in particular market sectors the book systematically examines the important market segments for green buildings It also presents key business case justifications for green buildings that help architects engineers and builders to understand client motivations and respond to them with appropriate marketing tactics and communications strategies The book examines how the green building market is adopting certain new products and design approaches information that will help manufacturers and product sales teams to craft appropriate marketing strategies The book also helps owners and developers understand the green building business case and to find out what other leading edge firms and projects have learned how to market and sell green buildings and green developments in a highly competitive marketplace

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 Building with Concrete Gajanan M. Sabnis, 2011-10-19 With superior fire resistance strength and a long service life concrete is the most widely used construction material in the world A sustainable material concrete is also easily and affordably reused and rehabilitated The first book to provide an overview of sustainability and concrete Green Building with Concrete Sustainable Design and Construction surveys the material s history in the green building movement and presents state of the art methodologies and best practices From the manufacturing of cement to the rehabilitation of concrete this comprehensive book explains how concrete can be used for sustainable design and construction It offers insight into new technological and social developments guiding the introduction of green buildings and examines the attributes that concrete has to offer the green building movement The text also highlights research on economic analysis particularly life cycle costing to provide a full picture of the economic benefits of concrete Expert contributors from around the world offer diverse viewpoints on global sustainability Topics covered include Principles of sustainable design Benefits of concrete s thermal mass Mitigation of urban heat island effects Surface runoff and the application of pervious concrete for sidewalks and parking areas Reduction of construction waste Leadership in energy and environmental design LEED standards Emphasizing environmental impact and occupational and consumer health and safety this book explains how to make the most of concrete in sustainable design Written for university and concrete industry continuing education courses it also serves as a reference for building owners and industry professionals who recognize the value of green building **Green Building Costs** Ming Hu, 2023-08-08 Sustainability has become a driver of innovation in the built environment but the affordability of sustainable building remains a significant challenge This book takes a critical view of the real cost of green building It provides readers with a non biased evaluation based on empirical construction cost data and sheds light on the affordability of sustainable buildings Chapters are presented in three parts The first part lays the foundation to demystify the perception of green buildings being expensive to construct by providing empirical evidence that green buildings even net zero buildings are not necessarily more expensive to build than conventional buildings The second part presents empirical evidence common misperceptions of a higher green building construction cost are debunked The author offers a new framework to explain the construction cost drivers and differences of sustainable buildings the project characteristics and project team characteristics human factors The third part directs the readers attention to the important role that human factors play in controlling and reducing construction costs with a focus on the project design team A lack of skills expertise and experience during the design phase is likely to be the biggest contributor to higher construction costs Empirical analysis case studies on LEED certified buildings and interviews with project teams are used to present a pathway to more affordable green building at the end This will be a crucial resource for students and professionals in architecture engineering construction management and planning and energy policy **Becoming a Green Building Professional** Holley Henderson, 2012-08-03 A career guide for professionals in sustainable architecture design planning development and

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

Handbook of Green Building Design and Construction Sam Kubba,2016-10-15 *Handbook of Green Building Design and Construction* LEED BREEAM and Green Globes Second Edition directly addresses the needs of building professionals interested in the evolving principles strategies and concepts of green sustainable design Written in an easy to understand style the book is updated to reflect new standards to LEED In addition readers will find sections that cover the new standards to BREEAM that involve new construction Infrastructure data centers warehouses and existing buildings Provides vital information and penetrating insights into three of the top Green Building Codes and Standards applied Internationally Includes the latest updates for complying with LEED v4 Practices and BREEAM Presents case studies that draws on over 35 years of personal experience from across the world

Essential Sustainable Home Design Chris Magwood,2017-07-31 *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*

Green Building RSMeans,2011-01-19 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

Contractor's Guide to Green Building Construction Thomas E. Glavinich, Associated General Contractors, 2008-04-07 Written for contractors and endorsed by the Associated General Contractors of America Written specifically for contractors this how to book enables you to meet the challenges of green building construction You ll discover how constructing environmentally friendly sustainable buildings influences project management delivery documentation and risk Moreover the book guides you through these important considerations at all phases of a green construction project including Bidding and contracting Managing green design when the contractor works as a design builder Subcontracting Procurement Construction management Project commissioning and closeout This book is endorsed by the Associated General Contractors of America AGC and was written with the assistance and advice of a specially assembled AGC task force With a focus on the green building process from the contractor s viewpoint the book avoids endorsing any one green building rating system in favor of presenting the business fundamentals common to them all Throughout the presentation flowcharts and other features offer working tools for successfully managing green construction projects Plus real world case studies developed through discussions with the actual contractors involved help you understand exactly what to expect and how to best manage constructing a green building In short this is one book that you need to have on hand to be a part of the rapidly growing green building movement

Green Building Design and Construction United States. Green Building Council, 2009

An Introduction to Sustainable Building Design and Construction J. Paul Guyer, P.E., R.A., 2018-02-01 Introductory design guidance for professional engineers and architects interested in sustainable design and construction for buildings Here is what is discussed

- 1 OVERVIEW
- 2 EMPLOY INTEGRATED DESIGN PRINCIPLES
- 3 OPTIMIZE ENERGY PERFORMANCE
- 4 PROTECT AND CONSERVE WATER
- 5 ENHANCE INDOOR ENVIRONMENTAL QUALITY
- 6 REDUCE ENVIRONMENTAL IMPACT OF MATERIALS
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Green Building Design And Construction Introduction

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