



THE
GUIDEBOOK TO
SUSTAINABLE DESIGN
SECOND EDITION

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Hok Guidebook To Sustainable Design

**Sandra Mendler, William Odell, Mary
Ann Lazarus**



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The HOK Guidebook to Sustainable Design Sandra Mendler, William Odell, Mary Ann Lazarus, 2006 REAL World Design Tool for Sustainable Design This comprehensive updated edition of the definitive reference on sustainable design includes extensive new design process information updated case studies and post occupancy

evaluations organized to support use of the USGBC's LEED Leadership in Energy and Environmental Design Green Building Rating System Complete with practical tools and real world examples this hands on reference for architects engineers planners landscape architects interior designers construction contractors building owners and operators and students includes Eighteen case studies reflecting HOK's own application of sustainable design principles to real buildings several with postoccupancy evaluations that demonstrate how sustainable design can be practical cost effective and good for both buildings and business Ten Key Steps provide a road map for the integrated multidisciplinary design process that is essential to successful sustainable design projects Concise checklists of actions to consider at each step in the process followed by detailed how to information and guidance on best practices organized by the LEED categories sustainable sites water efficiency energy atmosphere materials resources and indoor environmental quality Building type specific guidance on how to apply sustainable design to airports convention centers correctional facilities health care facilities laboratories museums office buildings and commercial interiors

Sustainable Design Daniel E. Williams, 2007-05-01 Meeting the Challenge of Sustainable Design Daniel Williams's *Sustainable Design* is a thoroughly practical call for the design professions to take the next steps toward transformation of the human prospect toward a future that is sustainable and sustaining of the best in human life lived in partnership not domination From the Foreword by David W Orr the Paul Sears Distinguished Professor of Environmental Studies and Politics and Chair of the Environmental Studies Program at Oberlin College In this pioneering book Daniel Williams provides the sort of intelligent thoughtful experienced insights that if followed will ensure that we make the right choices It should be on the desk of every architect in the world Denis Hayes president and CEO of the Bullitt Foundation and coordinator of the first Earth Day in 1970 Architects identify sustainability as the most important change in the future of their profession *Sustainable Design Ecology Architecture and Planning* is a practical comprehensive guide to design and plan a built environment compatible with the region's economic social and ecological patterns In this book Daniel Williams challenges professionals to rethink architecture and to see their projects not as objects but as critical connected pieces of the whole essential to human health as well as to regional economy and ecology Comprehensive in scope *Sustainable Design* answers key questions such as How do I begin thinking and designing ecologically What is the difference between green design and sustainable design What are some examples of effective change I can make that will have the most impact for the least cost Written for architects planners landscape architects engineers public officials and change agent professionals this important resource defines the issues of sustainable design illustrates conceptual and case studies and provides support for continued learning in this increasingly central focus of architects and urban planners work Williams's book features winning projects from the first decade of the AIA's Committee on the Environment COTE Top Ten award program

Fundamentals of Integrated Design for Sustainable Building Marian Keeler, Prasad Vaidya, 2016-04-08 The Fully Updated Indispensable Study of Sustainable Design Principles *Fundamentals of Integrated Design for Sustainable Building* is

the first textbook to merge principles theory and practice into an integrated workflow This book introduces the technologies and processes of sustainable design and shows how to incorporate sustainable concepts at every design stage This comprehensive primer takes an active learning approach that keeps students engaged This book dispenses essential information from practicing industry specialists to provide a comprehensive introduction to the future of design This new second edition includes Expansive knowledge from history and philosophy to technology and practice Fully updated international codes like the CAL code and current legislations Up to date global practices such as the tools used for Life Cycle Assessment Thorough coverage of critical issues such as climate change resiliency health and net zero energy building Extensive design problems research exercise study questions team projects and discussion questions that get students truly involved with the material Sustainable design is a responsible forward thinking method for building the best structure possible in the most efficient way Conventional resources are depleting and building professionals are thinking farther ahead This means that sustainable design will eventually be the new standard and everyone in the field must be familiar with the concepts to stay relevant Fundamentals of Integrated Design for Sustainable Building is the ideal primer with complete coverage of the most up to date information

The Sustainable Sites Handbook Meg Calkins, 2012-01-18 Get the definitive resource guide for sustainable site design construction and management The Sustainable Sites Initiative SITES is transforming land design development and management practices across the United States with the first national rating system for sustainable landscapes The Sustainable Sites Handbook features comprehensive and detailed information on principles strategies technologies tools and best practices for sustainable site design Contributors to this book are some of the same experts that carefully shaped the SITES rating tool ensuring thorough coverage of the broad range of topics related to sustainable site design The Sustainable Sites Handbook offers in depth coverage of design construction and management for systems of hydrology vegetation soils materials and human health and well being Focusing primarily on environmental site design and ecosystem services this wide ranging guide also covers issues of social equity economic feasibility and stewardship which are crucial to the success of any sustainable site Equally useful as a handbook for obtaining SITES credits or for the independent development of sustainable sites The Sustainable Sites Handbook is an indispensable resource for practicing professionals in landscape architecture landscape design architecture civil engineering land planning horticulture ecology environmental engineering landscape contracting and parks and recreation management

Sustainable Design Daniel A. Vallero, Chris Brasier, 2008-04-25 Scientific Principles to Guide Sustainable Design Decisions From thermodynamics to fluid dynamics to computational chemistry this book sets forth the scientific principles underlying the need for sustainable design explaining not just the hows of sustainable design and green engineering but also the whys Moreover it provides readers with the scientific principles needed to guide their own sustainable design decisions Throughout the book the authors draw from their experience in architecture civil engineering environmental engineering planning and public policy in

order to build an understanding of the interdisciplinary nature of sustainable design Written to enable readers to take a more scientific approach to sustainable design the book offers many practical features including Case studies presenting the authors firsthand accounts of actual green projects Lessons learned from Duke University's Smart House Program that demonstrate the concepts and techniques discussed in the book Exercises that encourage readers to use their newfound knowledge to solve green design problems Figures tables and sidebars illustrating key concepts and summarizing important points For architects designers and engineers this book enables them to not only implement green design methods but also to choose these methods based on science With its many examples case studies and exercises the book is also an ideal textbook for students in civil and environmental engineering construction and architectural engineering

Sustainable Buildings and Infrastructure Annie R. Pearce, Yong Han Ahn, Hanmi Global Co, Ltd, 2017-12-14 The second edition of Sustainable Buildings and Infrastructure continues to provide students with an introduction to the principles and practices of sustainability as they apply to the construction sector including both buildings and infrastructure systems As a textbook it is aimed at students taking courses in construction management and the built environment but it is also designed to be a useful reference for practitioners involved in implementing sustainability in their projects or firms Case studies best practices and highlights of cutting edge research are included throughout making the book both a core reference and a practical guide

Designing Zero Carbon Buildings Using Dynamic Simulation Methods Ljubomir Jankovic, 2017-06-23 In addition to the application of fundamental principles that lead to a structured method for zero carbon design of buildings this considerably expanded second edition includes new advanced topics on multi objective optimisation reverse modelling reduction of the simulation performance gap predictive control nature inspired emergent simulation leading to sketches that become alive and an alternative economics for achieving the sustainability paradigm The book features student design work from a Master's programme run by the author and their design speculation for a human settlement on Mars Tasks for simple simulation experiments are available for the majority of topics providing the material for classroom exercise and giving the reader an easy introduction into the field Extended new case studies of zero carbon buildings are featured in the book including schemes from Japan China Germany Denmark and the UK and provide the reader with an enhanced design toolbox to stimulate their own design thinking

Hacking the Earthship Rachel Preston Prinz, 2015-03-25 Hacking the Earthship In Search of an Earth Shelter that Works for EveryBody is a comprehensive collection of academic and in the field research findings on Earthships combined with practical how to advice for designing and financing your own truly sustainable earth sheltered home Rachel Preston Prinz and contributing authors discuss the history research design issues and evolution of Earthships drawing on the knowledge of thousands of builders craftsmen and designers who have mastered the art of earth sheltering Then they walk readers step by step through design offering a wealth of resources that can inspire inform and educate Within readers will find the tools needed to understand their place's culture architecture and climate and the ideal

building methods for their climate personality values and budget THE NEW GENERATION OF EARTHSHIP ENTHUSIASTS Does not want to cart questionable building materials long distances and call it green Wants to build locally and naturally and they want to build it themselves Wants their buildings to be cool in summer warm in winter the humidity to be predictable and regular and they want to minimize pests and allergens Wants to be able to get a permit and insurance and resell their homes if they want to or pass them on if they can They want a smaller home that is just right for their budget time ability energy use and maintenance They want to make their home easy to manage maintain and get around in even if they are in a walker or wheelchair They want their home to feel like it is made from and relating to the earth in views in light in fresh air in the ability to grow food and in a beautiful landscape that supports the home Finding the balance between all these desires is a delicate and lengthy process of discernment study and goal setting That is what this book aims to help you do Chapter 1 THE EARTHSHIP REALITY PROJECT discusses the issues and resolutions of the design Chapter 2 THE SCIENCE ACADEMIC RESEARCH AND TIRE OFF GASSING reviews academic and scientific research on Earthships Chapter 3 A WAY FORWARD discusses financing and insurance minimizing waste managing the build visioning and Code requirements Chapter 4 THE BUILDING S CONTEXT AND SITE addresses the site and landscape Chapter 5 DESIGNING FOR THERMAL COMFORT addresses natural mechanical and design options for improving thermal performance Topics covered include passive solar design thermal mass versus insulation earth coupling versus earth sheltering thermal and moisture protection and natural ventilation Chapter 6 THE STRUCTURAL SYSTEM addresses the ways we can form the building s structure Chapter 7 THE ENCLOSURE SYSTEM outlines the construction of the building s envelope or skin We discuss traditional earthship building blocks like tire glass and can walls as well as alternative systems like adobe cob rammed earth earthbags wood block concrete forms timber frame log cordwood and strawbale buildings We also cover various roofing options as well as doors and windows Chapter 8 ROOMS SPACES COLORS TEXTURES discusses how we can create a home we love Chapter 9 MECHANICAL SYSTEMS outlines basic mechanical electrical and plumbing considerations especially on grid systems since those are what make an Earthship most affordable Chapter 10 IMBUING SPACE WITH SPIRIT addresses psychological and spiritual aspects of design Chapter 11 CONCLUSION A NEW SET OF EARTH SHELTER BUILDING CRITERIA Chapter 12 OVERWHELMED NEED HELP discusses some helpful tips if you hire an architect or residential designer The APPENDICES offer resources and worksheets Portions of the proceeds will go to our non profit architectural education programs ARCHITECTURE FOR EVERYBODY and BUILT FOR LIFE The SAGE Handbook of Architectural Theory C. Greig Crysler, Stephen Cairns, Hilde Heynen, 2012-01-20 Offers an intense scholarly experience in its comprehensiveness its variety of voices and its formal organization the editors took a risk experimented and have delivered a much needed resource that upends the status quo Architectural Histories journal of the European Architectural History Network Architectural theory interweaves interdisciplinary understandings with different practices intentions and ways of

knowing This handbook provides a lucid and comprehensive introduction to this challenging and shifting terrain and will be of great interest to students academics and practitioners alike Professor Iain Borden UCL Bartlett School of Architecture In this collection architectural theory expands outward to interact with adjacent discourses such as sustainability conservation spatial practices virtual technologies and more We have in The Handbook of Architectural Theory an example of the extreme generosity of architectural theory It is a volume that designers and scholars of many stripes will welcome K Michael Hays Eliot Noyes Professor of Architectural Theory Harvard University The SAGE Handbook of Architectural Theory documents and builds upon the most innovative developments in architectural theory over the last two decades Bringing into dialogue a range of geographically institutionally and historically competing positions it examines and explores parallel debates in related fields The book is divided into eight sections Power Difference Embodiment Aesthetics Pleasure Excess Nation World Spectacle History Memory Tradition Design Production Practice Science Technology Virtuality Nature Ecology Sustainability City Metropolis Territory Creating openings for future lines of inquiry and establishing the basis for new directions for education research and practice the book is organized around specific case studies to provide a critical interpretive and speculative enquiry into the relevant debates in architectural theory *Environmentally Responsible Design* Louise Jones, 2012-07-19 At last there is an authoritative guide to help interior designers apply green building and sustainability applications to their environments Sustainable Interior Design expertly introduces the principles of environmentally responsible design for interior environments This useful reference provides beginning designers and experienced professionals alike with a comprehensive survey that covers everything from theoretical approaches to current practices It helps designers understand the environmentally responsible approach and make design decisions that are ethical and do not harm the world's environment Designing Sustainable Residential and Commercial Interiors Lisa M. Tucker, 2014-09-11 Designing Sustainable Commercial Interiors Applying Concepts and Practices is a core text that teaches students and designers how to apply sustainable principles to all stages of the design process for residential and commercial interiors An overview of the types of design projects emphasizes a three pronged approach to sustainability equity economy and ecology Through case studies for a range of project types including retail healthcare hospitality corporate adaptive reuse civic and institutional and residential readers will learn how to use a sustainable concept as the foundation for well designed projects The Sustainable City V A. Gospodini, C. A. Brebbia, Enzo Tiezzi, 2008 of the present without compromising the ability of future generations to meet their own needs In The Sustainable City V many interrelated aspects of the urban environment from transport and mobility to social exclusions and crime prevention are addressed The papers included were originally presented at the Fifth International Conference on Urban Regeneration and Sustainability and will be of interest to city planners architects environmental engineers and all academics professionals and practitioners working in the wide range of disciplines associated with creating a viable urban environment In this book the papers are published under the following

topics Architectural issues Cultural heritage Energy resources systems Environmental management Healthy cities Indicators
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 Public safety Revitalisation strategies Socio economic issues Spatial modelling Strategy Sustainable transportation and
 transport integration The community and the city Traffic and transportation Urban rural relationships *A Handbook on
 Low-Energy Buildings and District-Energy Systems* L.D. Danny Harvey, 2012-08-21 Winner of Choice Magazine Outstanding
 Academic Titles for 2007 Buildings account for over one third of global energy use and associated greenhouse gas emissions
 worldwide Reducing energy use by buildings is therefore an essential part of any strategy to reduce greenhouse gas
 emissions and thereby lessen the likelihood of potentially catastrophic climate change Bringing together a wealth of hard to
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 holistic perspective with technical detail in an accessible and insightful manner *Greening Spaces for Worship and
 Ministry* Mark A. Torgerson, 2012-05-04 Greening Spaces for Worship and Ministry is a comprehensive guide The book
 provides a rationale strategies and resources for fulfilling environmental stewardship through the land and buildings of
 Christian and Jewish congregations New construction renovation and historic preservation projects are addressed Site
 development material choices energy generation and consumption water use interior air quality green cleaning programs
 and beauty are discussed Ten congregations from across the United States and Canada are featured as examples of
 excellence in creation care in and through their built environments **Sustainable Design of Research Laboratories**
 KlingStubbins, 2011-02-14 Architecture Sustainable Design A comprehensive book on the sustainable design of research
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contemporary sustainably designed labs with a focus on architecture and engineering Explores the challenges in applying rating systems including LEED to laboratory buildings Examines unique considerations of sustainable approaches in leased and renovated laboratories Includes contributions by experts on approaches to integrated design site design programming and commissioning This important book shows how theoretical ideas can be applied to real life laboratory projects to create healthier and more efficient research environments

The Architect's Handbook of Professional Practice Update 2004 The American Institute of Architects,2004-03-30 The Architect s Handbook of Professional Practice Update 2004 offers the latest critical information to supplement the Thirteenth Edition Updated sample contracts Includes an overview and new sample documents on CD ROM Expanded practice topics Features seven new topics including proven techniques for improving client communications and four new services such as building security assessment that architects can provide Practice profiles Contains seven practice profiles that illustrate how firms of all sizes can increase business and profits by adding new practice methods and services

Sustainable Commercial Interiors Penny Bonda,Katie Sosnowchik,2006-11-03 In Sustainable Commercial Interiors coauthors Penny Bonda a noted expert on interior design and sustainability and Katie Sosnowchik an interior design editor and innovator share their passion for environmental advocacy while offering designers and architects the technical knowledge important for success in this evolving discipline The authors apply the concept of environmental responsibility to the design of interiors and employ the organization of the LEED Green Building Rating System to sort the design process into five categories sustainable sites water efficiency energy issues materials and indoor environmental quality

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Table of Contents Hok Guidebook To Sustainable Design

1. Understanding the eBook Hok Guidebook To Sustainable Design
 - The Rise of Digital Reading Hok Guidebook To Sustainable Design
 - Advantages of eBooks Over Traditional Books
2. Identifying Hok Guidebook To Sustainable Design
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hok Guidebook To Sustainable Design
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hok Guidebook To Sustainable Design

- Personalized Recommendations
- Hok Guidebook To Sustainable Design User Reviews and Ratings
- Hok Guidebook To Sustainable Design and Bestseller Lists
- 5. Accessing Hok Guidebook To Sustainable Design Free and Paid eBooks
 - Hok Guidebook To Sustainable Design Public Domain eBooks
 - Hok Guidebook To Sustainable Design eBook Subscription Services
 - Hok Guidebook To Sustainable Design Budget-Friendly Options
- 6. Navigating Hok Guidebook To Sustainable Design eBook Formats
 - ePub, PDF, MOBI, and More
 - Hok Guidebook To Sustainable Design Compatibility with Devices
 - Hok Guidebook To Sustainable Design Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hok Guidebook To Sustainable Design
 - Highlighting and Note-Taking Hok Guidebook To Sustainable Design
 - Interactive Elements Hok Guidebook To Sustainable Design
- 8. Staying Engaged with Hok Guidebook To Sustainable Design
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hok Guidebook To Sustainable Design
- 9. Balancing eBooks and Physical Books Hok Guidebook To Sustainable Design
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hok Guidebook To Sustainable Design
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hok Guidebook To Sustainable Design
 - Setting Reading Goals Hok Guidebook To Sustainable Design
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hok Guidebook To Sustainable Design

- Fact-Checking eBook Content of Hok Guidebook To Sustainable Design
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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