

Sustainable Design A Critical Guide

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Sustainability has emerged as a central issue for contemporary societies and for the world community as a whole. Furthermore, many of the social and environmental concerns that are embodied in the term 'sustainability' are directly or indirectly related to design. Designers help to define our human made environment - how it is produced, how it is used, and how long it endures. Despite some forty years of development and increased awareness of the critical relationships that exist between design decisions and modes of production, energy use, environmental impacts, the nature of work and human exploitation, design for sustainability is still not widely understood or followed. The Handbook of Design for Sustainability presents a comprehensive, state-of-the-art overview of this crucial subject - its development, its methods, its practices and its potential futures. Bringing together leading international scholars and new researchers to provide a substantive insight into the latest thinking and research within the field. The Handbook covers a breadth of historical and theoretical understandings and includes a series of original essays that explore methods and approaches for designers and design educators. The Handbook presents the first systematic overview of the subject that, in addition to methods and examples, includes historical perspectives, philosophical approaches, business analyses, educational insights and emerging thinking. It is an invaluable resource for design researchers and students as well as design practitioners and private and public sector organizations wishing to develop more sustainable directions.

The graphic artist's guide to sustainable design Graphic design is frequently thought of as a purely decorative effort. Yet these efforts can be responsible for shocking impacts on natural resources just to produce a barely-glanced-at catalog or mail piece. Sustainable Graphic Design: Tools, Systems, and Strategies for Innovative Print Design helps designers view graphic design as a holistic process. By exploring eco-conscious materials and production techniques, it shows designers how to create more effective and more sustainable designs. Sustainable Graphic Design opens your eyes to the bigger picture of design seen from the viewpoints of the audience, the creative vendor, their suppliers, and society as a whole. Chapters are written by a wide range of sustainable design pioneers and practitioners—including graphic designers, creative managers, marketing consultants, environmentalists, researchers, and psychologists—giving you critical information on materials and processes. Case studies illustrate and tie concepts together. Sustainability isn't a fad or a movement; it's a long-term paradigm shift. With this forward-looking toolkit, you'll be able to infuse your work with sustainability systems thinking, empowering you to play your role in achieving a future where design and sustainability are natural partners. Contributors Paul Andre Paul J. Beckmann Sharoll Benson Arlene Birt Robert Callil Don Carl Jeremy Faludi Terry Gips Fred Haberman Dan Halsey Jessica Jones Curt McNamara, John Moes Jacquelyn Otman Holly Robbins Pamela Smith Dion Zuess Biomimicry Guild Carbonless Promise Chlorine Free Products Association Environmental Paper Network Eureka Recycling Great Printer Environmental Initiative Package Design Magazine Promotional Product Solutions Sustainable Green Printing Partnership Sustainable Packaging Coalition

This book is a guide to a sustainable design process that moves from theory, to site and energy use, to building systems, and finally to evaluation and case studies, so you can integrate design and technology for effective sustainable building. Kuppaswamy lyengar shows you how to get it right the first time, use free energy systems, and utilise technologies that minimize fossil fuel use. Each chapter has a sustainable design overview, technical details and strategies marked by clear sections, a summary, and further resources. Heavily illustrated with charts, tables, drawings, photographs, and case studies, the book shows technologies and concepts integrated into cohesive project types, from small and large office spaces to single and multiuse residences, hospitals, schools, restaurants, and warehouses to demonstrate implementing your designs to meet clients' needs now and for the future. Includes an overview of alternate assessment and evaluation systems such as BREEAM, CASBEE, GBTool, Green Globes alongside LEED, ECOTECT, energy 10, HEED and eQuest simulation programs. The guide reveals the importance of the building envelope—walls, superstructure, insulation, windows, floors, roofs, and building materials—on the environmental impact of a building, and has a section on site systems examining site selection, landscape design, thermal impact, and building placement.

"Any architect doing small or medium scaled projects who is alsovested in sustainable design but is not yet doing BIM will enjoythis book's overall focus."-Architosh.com This work is the leading guide to architectural design within abuilding information modeling (BIM) workflow, giving thetractioneer a clear procedure when designing climate-loaddominated buildings. The book incorporates new information relatedto BIM, integrated practice, and sustainable design, as wellinformation on how designers can incorporate the latesttechnological tools. Each chapter addresses specific topics, suchas natural ventilation for cooling, passive solar heating,rainwater harvesting and building hydrology, optimizing materialuse and reducing construction waste, and collaborating withconsultants or other building professionals such as engineers andenergy modelers.

A companion to Understanding Green Building Guidelines, this primer explains green building products—what they are and how to choose them. From eco-friendly sheetrock to sustainable paint finishes, the green building movement is gaining momentum. But with new products, manufacturers, and standards being introduced routinely, how are architects or designers to know what's best for their projects? This book summarizes what is available and the considerations for selecting sustainable materials.

An accessible, climate-diverse guide that transforms readers from sustainable design novices to whole-solution problem solvers. Sustainable Design Basics is a student-friendly introduction to a holistic and integral view of sustainable design. Comprehensive in scope, this textbook presents basic technical information, sustainability strategies, and a practical, step-by-step approach for sustainable building projects. Clear and relatable chapters illustrate how to identify the factors that reduce energy use, solve specific sustainable design problems, develop holistic design solutions, and address the social and cultural aspects of sustainable design. Requiring no prior knowledge of the subject, the text's easy-to-follow methodology leads readers through the fundamental sustainable design principles for the built environment. Sustainably-constructed and maintained buildings protect the health and improve the productivity of their occupants, as well as help to restore the global ecosystem. The authors, leading practitioners and educators in sustainable design, have created a resource that provides a solid introduction to broad level sustainability thinking that students can take forward into their professional practice. Topics include space planning for sustainable design, integrative and collaborative design, standards and rating systems, real-world strategies to conserve energy and resources through leveraging renewable natural resources and innovative construction techniques and their impact on our environment. Usable and useful both in and beyond the classroom, this book Covers building location strategies, building envelopes and structures, integration of passive and active systems, green materials, and project presentation Examines cultural factors, social equity, ecological systems, and aesthetics Provides diverse student exercises that vary by climate, geography, setting, perspective, and typology Features a companion website containing videos for each sustainable strategy, matrices, templates, Sketch-Up and AutoCAD files, PowerPoint slides, and extensive instructor resources Sustainable Design Basics is an important resource aimed at undergraduate architecture and interior design students, or first-year graduate students, as well as design professionals wishing to integrate sustainable design knowledge and techniques into their practice.

Sustainability is a powerful force that is fundamentally reshaping humanity's relationship to the natural world and is ushering in the Age of Integration. The move from well-intentioned environmental friendliness to the higher bar of integral sustainability and regenerative design demands a new type of design professional, one that is deeply collaborative, ethically grounded, empathically connected and technologically empowered. As a response, this book argues for a great leap forward in design education: from an individualistic and competitive model casually focused on greening, to a new approach defined by an integral consciousness, shaped by the values of inclusivity and cooperation, and implemented by a series of integrative behaviors including: an ethically infused design brief a co-creative design process on-going value engineering pre-emptive engineering design validation through simulation on-line enabled integrated learning the use of well-vetted rating systems. This book contains the integral frameworks, whole system change methodologies and intrinsic values that will assist professors and their students in an authentic and effective pursuit of design education for a sustainable future.

Whether it is the effects of climate change, the avalanche of electronic and plastic waste or the substandard living and working conditions of billions of our fellow global citizens, our ability to deal with unsustainability will define the twenty-first century. Given that most consumption is mediated through products and services, the critical question for designers is: How can we radically reshape these into tools for sustainable living? As a guide and reference text, Product Design and Sustainability provides design students, practitioners and educators with the breadth and depth needed to integrate the most appropriate sustainable strategies into their practice. It establishes the principles that underpin sustainability and introduces a diverse range of social, economic and environmental design responses and tools available to designers. The numerous real-world examples illustrate how these strategies play out in different product sectors and reinforce the view that sustainability is the most positive opportunity and creative challenge facing designers today. This book delivers a comprehensive guide to the principles of sustainability and how they apply to product design that can readily be integrated into curricula and design practice reveals many of the issues specific product sectors are facing, and provides the depth and breadth needed for formulating and developing sustainable design strategies to address these issues empowers and inspires designers to engage with sustainability through its many examples and insightful interviews with practitioners is fully illustrated with over 300 photographs, graphs and diagrams and supported by chapter summaries, annotated further reading suggestions, and a glossary.