

# design + environment

a global guide to designing greener goods

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Routledge

A Greenleaf Publishing Book

# Design Environment A Global Guide To Designing Greener Goods

**Tanya Ha**



## **Design Environment A Global Guide To Designing Greener Goods:**

*Design + Environment* Helen Lewis, John Gertsakis, 2001 There is a huge scarcity of good practical resources for designers and students interested in minimizing the environmental impacts of products Design Environment has been specifically written to address this paucity The book first provides background information to help the reader understand how and why design for environment DfE has become so critical to design with reference to some of the most influential writers designers and companies in the field Next Design Environment provides a step by step approach on how to approach DfE to design a product that meets requirements for quality cost manufacturability and consumer appeal while at the same time minimising environmental impacts The first step in the process is to undertake an assessment of environmental impacts using life cycle assessment LCA or one of the many simpler tools available to help the designer From then on DfE becomes an integral part of the normal design process including the development of concepts design of prototypes final design and development of marketing strategies Environmental assessment tools and strategies to reduce environmental impacts such as the selection of appropriate materials are then discussed Next some of the links between environmental problems such as global warming ozone depletion water and air pollution and the everyday products we consume are considered In order to design products with minimal environmental impact we need to have a basic understanding of these impacts and the interactions between them The four subsequent chapters provide more detailed strategies and case studies for particular product groups packaging textiles furniture and electrical and electronic products Guidelines are provided for each of the critical stages of a product s life from the selection of raw materials through to strategies for recovery and recycling Finally Design Environment takes a look at some of the emerging trends in DfE that are offering us the opportunity to make a more significant reduction in environmental impacts Both the development of more sustainable materials and technologies and the growing interest in leasing rather than selling products are examined Design Environment is organized as a workbook rather than an academic text It should be read once and then used as a key reference source This clear and informative book will prove to be invaluable to practising designers to course directors and their students in need of a core teaching and reference text and to all those interested in learning about the tools and trends influencing green product design The authors have all been involved in an innovative demonstration programme called EcoReDesign which was developed by the Centre for Design at RMIT University with funding from the Australian government The Centre successfully collaborated with Australian companies to improve the environmental performance of their products by following DfE principles

*Design + Environment* Helen Lewis, John Gertsakis, 2001-01-01 This work helps the reader understand how and why design for environment DfE has become so critical to design The authors show how to design a product that meets requirements for quality cost manufacturability and consumer appeal while at the same time minimizing environmental impacts

**Sustainable Product Development** Daizhong Su, 2020-05-12 This book offers a comprehensive review of sustainability

and product design providing useful information on the relevant regulations and standards for industries to meet increasing market demands for eco products while reducing their impact on the environment The examples and methods presented allow readers to gain insights into sustainable products The authors also explain how to develop products with sustainability features by applying tools and methods for sustainable design and manufacture These tools methods include Regulations directives related to sustainable product development Popular lifecycle analysis software packages Environmental and social lifecycle impact assessment methods Lifecycle inventory databases Eco point and eco accounting infrastructure ICT and traceability technologies for sustainable product development Sustainable design and manufacture Integrated approach for sustainable product development A description of each sustainability tool is accompanied by easy to understand guidelines as well as sustainable product development methods Five different case studies are also presented to illustrate how to apply the tools and methods into the development of real sustainable products In view of the increasing pressure on industries to meet the sometimes conflicting demands of the market and environment this book is a valuable resource for engineers and managers in manufacturing companies wishing to update their knowledge of sustainable product development It is also suitable for researchers and consultants who are involved or interested in sustainable product development as well as for students studying sustainable development production and engineering management

**Environment, Development, and Sustainability** Gordon Wilson, Pamela Furniss, Richard Kimbowa, 2010 Case studies from technologists engineers natural and social scientists and practitioners present multiple perspectives on sustainable development Examples from both developing and developed countries show how environment development and sustainability intertwine to form an issue of truly global concern

*The Designer's Atlas of Sustainability* Ann Thorpe, 2007-06-20 Designing for sustainability is an innovation shaping both the design industry and design education today Yet architects product designers and other key professionals in this new field have so far lacked a resource that addresses their sensibilities and concerns The Designer's Atlas of Sustainability now explores the basic principles concepts and practice of sustainable design in a visually sophisticated and engaging style The book tackles not only the ecological aspects of sustainable design designers choice of materials and manufacturing processes have a tremendous impact on the natural world but also the economic and cultural elements involved The Atlas is neither a how to manual nor collection of recipes for sustainable design but a compendium of fresh approaches to sustainability that designers can incorporate into daily thinking and practice Illuminating many facets of this exciting field the book offers ideas on how to harmonize human and natural systems and then explores practical options for making the business of design more supportive of long term sustainability An examination of the ethical dimensions of sustainable development in our public and private lives is the theme present throughout Like other kinds of atlases The Designer's Atlas of Sustainability illustrates its subject but it goes far beyond its visual appeal stimulating design solutions for development that cultivates environmental and social conditions that will support human well being indefinitely

**Greeniology** Tanya Ha, 2007 Being green is easier than you think Greeniology is a practical comprehensive and fun guide to local environmental action in your home at work and on holiday It s about living in comfort and style and in harmony with the natural environment Tanya Ha s green living advice tips and ideas for the beginner and committed tree hugger alike will compel you to change your life and to be part of the solution to our planet s problems As Gandhi said Be the change you want to see in the world Find out how to reduce the impact of your lifestyle on the health of the planet make your home more comfortable all year round save money on energy and water bills choose greener products cut your petrol costs and make your home safer and healthier for your family Design for Innovative Value Towards a Sustainable Society Mitsutaka Matsumoto, Yasushi Umeda, Keijiro Masui, Shinichi Fukushige, 2012-04-03 Since the first EcoDesign International Symposium held in 1999 this symposium has led the research and practices of environmentally conscious design of products services manufacturing systems supply chain consumption as well as economics and society EcoDesign 2011 the 7th International Symposium on Environmentally Conscious Design and Inverse Manufacturing was successfully held in the Japanese old capital city of Kyoto on November 30th December 2nd 2011 The subtitle of EcoDesign 2011 is to design for value innovation towards sustainable society During this event presenters discussed the way to achieve both drastic environmental consciousness and value innovation in order to realise a sustainable society Industry and Environment, 2001

**Sustainable and Green Supply Chains and Logistics Case Study Collection** Ozlem Bak, 2021-11-03 Sustainability is an increasingly urgent and important factor in logistics and supply chain management impacting the whole supply chain lifecycle from product design and development to supplier management packaging transportation warehousing and distribution The third volume of the Supply Chain Case Study Collection the Sustainable and Green Supply Chains and Logistics Case Study Collection contains real life scenarios from leading companies who are pursuing a sustainability agenda Cases cover sustainability and green practices in a range of different industries from food through to manufacturing and construction and in a variety of organization sizes They are written by leading international academics and feature cutting edge research from countries including India Vietnam Brazil China and the UK By exploring examples of waste reduction supplier management the circular economy and cross industry collaboration the Case Study Collection focuses on how organizations are currently trying to meet sustainability goals and achieve success in greening supply chains

*Re-engineering Manufacturing for Sustainability* Andrew Y. C. Nee, Bin Song, Soh-Khim Ong, 2013-04-08 This edited volume presents the proceedings of the 20th CIRP LCE Conference which cover various areas in life cycle engineering such as life cycle design end of life management manufacturing processes manufacturing systems methods and tools for sustainability social sustainability supply chain management remanufacturing etc **Advances in Life Cycle Engineering for Sustainable Manufacturing Businesses** Shozo Takata, Yasushi Umeda, 2007-07-26 Life cycle engineering deals with technologies for shifting the industry from mass production and mass consumption paradigm to closed loop manufacturing

paradigm in which required functions are provided for customers with the minimum amount of production This subject is discussed from the various aspects such as life cycle design design for environment reduce reuse recycle life cycle assessment and sustainable business models Advances in Life Cycle Engineering for Sustainable Manufacturing Businesses gathers together papers from the 14th International CIRP Life Cycle Engineering Conference This conference is the longest running annual meeting in the field in which papers are presented regarding developments of leading edge technologies proposals of new concepts and prominent industry case studies *Design Issues* ,2010 **Ecodesign** Kun-Mo Lee,2005

**Tools for Environmental Management** Dixon Thompson,2002 Thompson environmental science U of Calgary gathers 14 contributors from the academic and business sectors in this text for students professionals policy makers and regulators This book is not about managing the environment but about managing people in organizations governments and corporations to lessen environmental damage Topics include auditing education and training environmental reporting impact assessment and the Natural Step a Swedish NGO that advises on efficient material usage to increase profits and spare the environment Pub desc **Managing Innovation, Design and Creativity** Bettina von Stamm,2003-07-16 Managing Innovation Design and Creativity is an exciting new book published in collaboration with the London based Design Council The Design Council has commissioned Bettina von Stamm of London Business School to write a collection of case studies that develop the themes of innovation design and creativity The book is built around a collection of 10 case studies drawn from both manufacturing and service sectors and includes additional chapters discussing key themes and concepts developed in the cases The findings are invaluable reading for students and practitioners Develops an integrative approach to innovation creativity and design and shows how these topics fit together identifies tools and techniques that will help improve an organization s effectiveness Provides a collection of substantive case studies drawn from both service e g BBC and Bank of Scotland and manufacturing e g Black Decker and GKN sectors that are supported by expert commentaries Case teaching notes and other resources are provided on a supporting web site [www.wiley.co.uk/vonstamm](http://www.wiley.co.uk/vonstamm) **Perspectives on Radical Changes to Sustainable Consumption and Production** Arnold Tukker,2008 This work examines what sustainable consumption and production SCP is and what it could be provides a state of the art review on the governance of change in SCP policy and looks at the strengths and weaknesses of current projects **Environmental Law Reporter** ,2002 Dimensions ,2003 Dimensions is the annual student produced journal of architecture at the University of Michigan It seeks to contribute to the critical discourse of architectural education by documenting the most compelling work produced by its students faculty fellows and visiting lecturers **IEEE International Engineering Management Conference** ,2005 **Ecological Consumer Decision Making** Kim Yvonne Hiller Connell,2008

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