

# DESIGN

FOR SUSTAINABILITY

THE GREEN BUILDING SOURCEBOOK

# Design For Sustainability A Sourcebook Of Integrated Ecological Solutions

**Ken Yeang**



## **Design For Sustainability A Sourcebook Of Integrated Ecological Solutions:**

**Design for Sustainability**, 2002 Ecological principles and concepts are becoming increasingly integrated into our everyday lives influencing where and how we live This book is an inspiring radical and detailed collection of the eco solutions that can be applied to a range of design challenges *Design for Sustainability* Janis Birkeland, 2002 First Published in 2002 Routledge is an imprint of Taylor Francis an informa company *Design for Sustainability* Janis Birkeland, 2012-05-04 With radical and innovative design solutions everyone could be living in buildings and settlements that are more like gardens than cargo containers and that purify air and water generate energy treat sewage and produce food at lower cost Birkeland introduces systems design thinking that cuts across academic and professional boundaries and the divide between social and physical sciences to move towards a transdisciplinary approach to environmental and social problem solving This sourcebook is useful for teaching as each topic within the field of environmental management and social change has pairs of short readings providing diverse perspectives to compare contrast and debate *Design for Sustainability* presents examples of integrated systems design based on ecological principles and concepts and drawn from the foremost designers in the fields of industrial design materials housing design urban planning and transport landscape and permaculture and energy and resource management *Design for Sustainability* Janis Birkeland, 2002 *Positive Development* Janis Birkeland, 2012-05-16 Janis Birkeland presents the innovative new paradigm of Positive Development in which the built environment provides greater life quality health amenity and safety for all without sacrificing resources or money With a different form of design development itself can become a sustainability solution A cornerstone of this new paradigm is the eco retrofitting of the vast urban fabric we already inhabit The author presents a revolutionary new tool called SmartMode to achieve this end This book challenges everyone working in or studying the areas of sustainable development planning architecture or the built environment to rethink their current ideas and practices **Building Services Design for Energy Efficient Buildings** Paul Tymkow, Savvas Tassou, Maria Kolokotroni, Hussam Jouhara, 2020-07-12 The role and influence of building services engineers are undergoing rapid change and are pivotal to achieving low carbon buildings However textbooks in the field have tended to remain fairly traditional with a detailed focus on the technicalities of heating ventilation and air conditioning HVAC systems often with little wider context This book addresses that need by embracing a contemporary understanding of the urgent challenge to address climate change together with practical approaches to energy efficiency and carbon mitigation for mechanical and electrical systems in a concise manner The essential conceptual design issues for planning the principal building services systems that influence energy efficiency are examined in detail These are HVAC and electrical systems In addition the following issues are addressed background issues on climate change whole life performance and design collaboration generic strategies for energy efficient low carbon design health and wellbeing and post occupancy evaluation building ventilation air conditioning and HVAC system selection thermal energy generation and

distribution systems low energy approaches for thermal control electrical systems data collection controls and monitoring building thermal load assessment building electric power load assessment space planning and design integration with other disciplines In order to deliver buildings that help mitigate climate change impacts a new perspective is required for building services engineers from the initial conceptual design and throughout the design collaboration with other disciplines This book provides a contemporary introduction and guide to this new approach for students and practitioners alike **Saving The Planet By Design** Ken Yeang,2019-10-08 Can we save the Planet For a resilient durable and sustainable future for human society we need to repurpose reinvent redesign remake and recover our human made world so that our built environment is benignly and seamlessly biointegrated with Nature to function synergistically with it These are the multiple tasks that humanity must carry out imminently if there is to be a future for human society and all lifeforms and their environments on the Planet Addressing this is the most compelling question for those whose daily work impacts on Nature such as architects engineers landscape architects town planners environmental policy makers builders and others but it is a question that all of humanity needs to urgently address Presented here are two key principles as the means to carry out these tasks ecocentricity being guided by the science of ecology and ecomimesis as designing and making the built environment including all artefacts based on the emulation and replication of the ecosystem concept Designing with ecology is contended here as the authentic approach to green design from which the next generation of green design will emerge going beyond current use of accreditation systems For those who subscribe to this principle this is articulated here showing how it can be implemented by design Adopting these principles is fundamental in our endeavour to save our Planet Earth and changes profoundly and in entirety the way we design make manage and operate our built environment **Advances in Ergonomics in Design**

Francisco Rebelo,Marcelo M. Soares,2019-06-03 This book provides readers with a timely snapshot of ergonomics research and methods applied to the design development and prototyping as well as the evaluation training and manufacturing of products systems and services Combining theoretical contributions case studies and reports on technical interventions it covers a wide range of topics in ergonomic design including ecological design cultural and ethical aspects in design Interface design user involvement and human computer interaction in design as well as design for accessibility and many others The book particularly focuses on new technologies such as virtual reality state of the art methodologies in information design and human computer interfaces Based on the AHFE 2019 International Conference on Ergonomics in Design held on July 24 28 2019 Washington D C USA the book offers a timely guide for both researchers and design practitioners including industrial designers human computer interactionand user experience researchers production engineers and applied psychologists

**Design for Transport** Mike Tovey,2016-04-15 The central premise of Design for Transport is that the designer s role is to approach design for transport from the point of view of the user People have a collection of wants and needs and a significant proportion of them are to do with their requirements for mobility The authors show how creative designers can

take a user focused approach for a wide range of types of transport products and systems In so doing their starting point is one of creative dissatisfaction with what is currently available and their specialist capability is in imagining and developing new solutions which respond to that opportunity How this is tackled varies depending on the context and the variety of solutions produced reflects the different aspirations and needs of the people they are designing for The chapters cover user needs and transport design and the transport system transport design case studies and the case for the automobile A conclusion briefly signals what the future for transport design might be Lavishly illustrated throughout in four colour Design for Transport is an imaginative and rigorous guide to how designers can take a user centred and socially responsible approach to tackling a range of types of transport from systems to products and from bicycles to automobiles demonstrating a rich array of solutions through case studies

### **Education for Wicked Problems and the Reconciliation of Opposites**

Raoul J. Adam, 2016-02-26 The recognition and reconciliation of opposites lies at the heart of our most personal and global problems and is arguably one of the most neglected developmental tasks of Western education Such problems are wicked in the sense that they involve real life decisions that have to be made in rapidly changing contexts involving irreducible tensions and paradoxes By exploring our human tendency to bifurcate the universe Education for Wicked Problems the Reconciliation of Opposites proposes a way to recognise and re solve some of our most wicked problems Applying an original theory of bi relational development to wicked problems Adam proposes that our everyday ways of knowing and being can be powerfully located and understood in terms of the creation emergence opposition convergence collapse and trans position of dyadic constituents such as nature culture conservative liberal and spirit matter He uses this approach to frame key debates in and across domains of knowledge and to offer new perspectives on three of the most profound and related problems of the twenty first century globalisation sustainability and secularisation This book is a comprehensive study of dyads and dyadic relationships and provides a multidisciplinary and original approach to human development in the face of wicked problems It will be of great interest to students and academics in education and psychosocial development as well as professionals across a range of fields looking for new ways to recognise and re solve the wicked problems that characterise their professions

*Legal Aspects of Sustainable Development* Volker Mauerhofer, 2015-11-26 This book addresses legal aspects of sustainable development and offers the latest thinking on a wide range of current themes By taking a cross cutting approach it adds considerably to the exploration of this emerging scientific field Twenty nine original contributions present innovative thoughts and replicable ideas from this exciting new area which will be of value to practitioners and researchers alike These contributions are allocated into a horizontal and sectorial part The section covering horizontal policies has five sub parts 1 general aspects 2 human and intellectual property rights 3 communication and social enterprise governance 4 public participation and 5 assessment tools The second part on sectorial policies also has five sub parts 1 forest and water management 2 renewable energy 3 cities waste and material management 4 biodiversity nature conservation oceans and

spatial planning and 5 agriculture and rural policy It offers a multifaceted discussion of sustainable development and law by authors from five continents and from both the public and the private sectors This selection guarantees a broad view that presents the more theoretical arguments from the academic as well as the practical perspective Furthermore the authorship includes senior highly experienced academics and practitioners as well as those at the start of their career This ensures thoughtful expansions of established theories as well as the emergence of innovative ideas Moreover the ten sub parts bring together likeminded thoughts resulting in an exchange of different viewpoints on a similar theme This allows the readers to concentrate on individual chapters while at the same time discovering a variety of thoughts and ideas

**Designing Healthy Buildings and Communities** Ali Cheshmehzangi, Jian Zuo, Ayyoob Sharifi, Rongpeng Zhang, Abbas Ziafati Bafarasat, Jie Zhao, 2025-04-26 This book aims to explore and showcase global case studies focused on creating buildings and communities that promote health while enhancing climate resilience In an era where climate change increasingly impacts urban environments there is a critical need for innovative solutions that go beyond conventional practices This book compiles a diverse range of examples drawing on real life projects and potential paradigm shifts that emphasise novel ideas and advanced methodologies The featured case studies span various aspects of building and community design including architectural design directions technology integration and technical methods Each contribution provides practical examples that illustrate the implementation of these concepts in real world settings By highlighting innovative approaches the book challenges the status quo and encourages a shift from business as usual scenarios to forward thinking strategies that prioritise both human health and environmental sustainability Key themes include the integration of green building technologies the adoption of sustainable materials and the incorporation of nature based solutions in community design Additionally the book delves into community driven initiatives that foster social cohesion and climate resilience demonstrating how collaborative efforts can lead to more robust and adaptable cities Through detailed analyses and comprehensive discussions this book serves as a vital resource for architects urban planners policymakers and researchers It provides insights into cutting edge practices and offers inspiration for future projects aimed at creating a healthier and more sustainable future By bringing together these global perspectives the book highlights the importance of innovation and adaptability in the face of climate challenges ultimately contributing to the development of sustainable and thriving urban landscapes

**Universities as Drivers of Social Innovation** Davide Fassi, Paolo Landoni, Francesca Piredda, Pierluigi Salvadeo, 2019-11-15 This book reviews the social role of universities in their local urban contexts and describes a number of initiatives of major interest in terms of the impact achieved the range of stakeholders involved and the significance of the university campus and teachers as agents of change It is divided into three parts the first of which draws on the international literature to provide theoretical background regarding the role of universities and university campuses as drivers of and magnets for social innovation The second and third parts each focus on four main themes of interest in the contemporary

design setting urban community gardens social TV stations mobile pavilions and economic sustainability models After a theoretical overview that also illustrates international best practices it then focuses on the specific context of Milan based on the pilot project recently conducted by the Politecnico di Milano CampUS incubation and implementation of social practices which won the 25th ADI Compasso d'Oro Award 2018 in the social design category The book is of interest to academics students those working at public institutions and city policymakers

Dictionary of Sustainability Margaret Robertson, 2017-05-12 The Dictionary of Sustainability provides clear and accurate definitions of the extensive vocabulary that has developed in this emerging and interdisciplinary field saving considerable time from searching through the massive quantity of information of differing degrees of quality that is available through the Internet Providing authoritative definitions of standard terms used by scholars and practitioners it provides a clear and thorough conceptual framework and ensures those delving into topics for the first time or returning to them can quickly find what they need It also contains careful use of cross references and includes several expanded entries to provide readers with nuanced understanding of important topics The dictionary will be essential reading for all students studying sustainability topics as well as a handy reference for practitioners wanting to make a sustainable difference in the workplace

**Smart Cities and Innovative Urban Technologies** Tommi Inkinen, Tan Yigitcanlar, Mark Wilson, 2020-12-29 Over the past decade smart urban technologies have begun to blanket our cities forming the backbone of a large intelligent infrastructure Along with this development dissemination of the smart cities ideology has had a significant imprint on urban planning and development Smart Cities and Innovative Urban Technologies focuses on the concepts of smart cities and innovative urban technologies It contains research that provides insight into spatial formations of information and communication technologies and knowledge production practices from various perspectives including analyses of public and private sectors together with NGOs and other stakeholders It provides a state of the art analysis from multidisciplinary point of view in urban studies Contributions in this edited volume include theoretical developments as well as empirical analyses This book will be of great use to various audiences including academics as well as practitioners spatial developers planners and public administrators in order to increase understanding of the dynamics and factors effecting smart cities conceptual maturation and their physical emergence Information generated in these chapters particularly regarding the challenges and obstacles of smart cities and innovative urban technologies are intended to be of benefit to the key local actors in making decision in their cities or and peripheral locations This book was originally published as a special issue of the Journal of Urban Technology

Sustainable Retrofitting of Commercial Buildings Richard Hyde, Nathan Groenhout, Francis Barram, Ken Yeang, 2015-01-28 Despite recent improvements in energy efficiency being made in new build it is important that the existing commercial building sector also take action to meet emission reduction targets The objectives and challenges of such action will reduce the risk of the sector becoming obsolete due to high energy use and poor environmental performance This book presents a theory based practice

support methodology to deal with sustainable retrofitting opportunities for existing commercial buildings in warm climates using bioclimatic design as the basis The book has four main parts focusing on eco design and renovation bioclimatic retrofitting technological and behavioural change and case studies of retrofitting exemplars In the first part the context of climate change effects on design and renovation at the city scale is discussed The second part looks at bioclimatic retrofitting as a design guide for existing buildings highlighting the significance of architectural design and engineering systems for energy performance The technological and behavioural contexts of the existing building sector policies modelling monitoring and trend analysis in respect to energy and environmental performance are covered in part three The final part gives some case studies showing the effectiveness of strategies suggested for effective environmental performance This book is a must have guide for all involved in the design and engineering of retrofitting projects in warm climates **Civil Engineer's**

**Handbook of Professional Practice** Karen Lee Hansen, Kent E. Zenobia, 2024-11-18 A single source guide to the professional practice of civil engineering Civil Engineer s Handbook of Professional Practice Second Edition assists students and practicing and professional engineers in addressing the many challenges they face This guide expands on the practical skills defined by the American Society of Civil Engineers ASCE s Civil Engineering Body of Knowledge CEBOK and provides illuminating techniques quotes example problems solutions case studies and valuable information that engineers encounter in the real world Including critical information on project management leadership and communication this powerful resource distills the Accreditation Board for Science and Technology s ABET s requirements for a successful career and licensure Due to the large amount of information that is presented in an easy to digest way this handbook enables civil engineers to be competitive at an international level building on their traditional strengths in technology and science while also providing the ability to master the business of civil engineering In this second edition readers will find Modern business topics such as design thinking affirmative action equal opportunity and diversity negotiation health and safety requirements construction management body language interpretation skills project management and scheduling Key discussions of executing a professional commission the engineer s role in project development professional engagement and ethics Updated examples of everyday challenges for civil engineers including defining the project establishing objectives and innovative approaches identifying resources and constraints preparing a critical path schedule quality control and orchestrating project delivery The latest applications of emerging technologies globalization impacts and new sustainability applications for civil engineers Examples of a civil engineering request for proposal and corresponding workplan and feasibility study technical report specification contracts and scheduling and cost control tools Providing comprehensive coverage and in depth guidance from leading industry and academic professionals Civil Engineer s Handbook of Professional Practice Second Edition is a valuable reference for early career and experienced civil engineers alike It is also highly appropriate for upper level undergraduate and graduate courses in Professional Practice and Engineering Project Management Instructors have access to an instructor



s manual via the book's companion website      **Smart City Blueprint** Tan Yigitcanlar, 2023-10-26 The smart city movement during the last decade and a half advocated the built environment and digital technology convergence with the backing of institutional capital and government support. The commitment of a significant number of local governments across the globe in terms of official smart city policies and initiatives along with the constant push of global technology giants has reinforced the popularity of this movement. This two-volume treatment on smart cities thoroughly explores and sheds light on the prominent elements of the smart city phenomenon and generates a smart city blueprint. The first volume with its 12 chapters provides a sound understanding on the key foundations and growth directions of smart city frameworks, technologies, and platforms with theoretical expansions, practical implications, and real-world case study lessons. The second companion volume offers sophisticated perspectives on the key foundations and directions of smart city policies, communities, and urban futures with theoretical expansions, practical implications, and real-world case study lessons. These volumes offer an invaluable reference source for urban policymakers, managers, planners, practitioners, and many others, particularly to benefit from it when tackling key urban and societal issues and planning for and delivering smart city solutions. Moreover, the book is also a rich and important repository for scholars and research and undergraduate students.      [The Natural Advantage of Nations](#) Michael Harrison Smith, 2013-06-17 This book is more than just a palliative care guide for the planet; it is about innovation, solutions, competitiveness, and profitability. At work, at home, and as members of society, our generation has an opportunity to be part of the obligation and an exciting solution in restoring the balance. The authors present a bold vision for the future and demonstrate how we can get there, drawing on lessons of competitive advantage theory and the latest in sustainability, economics, innovation, business, and governance theory and practice. The result is nothing less than the most authoritative and comprehensive guide to date to building the new ecologically sustainable economy. For further information about The Natural Edge Project and to view the book's online companion, visit [www.naturaledgeproject.net](http://www.naturaledgeproject.net).      *Sustainability Principles and Practice* Margaret Robertson, 2021-02-09 *Sustainability Principles and Practice* gives an accessible and comprehensive overview of the interdisciplinary field of sustainability. The focus is on furnishing solutions and equipping students with both conceptual understanding and technical skills. Each chapter explores one aspect of the field, first introducing concepts and presenting issues, then supplying tools for working toward solutions. Elements of sustainability are examined piece by piece, and coverage ranges over ecosystems, social equity, environmental justice, food, energy, product life cycles, cities, and more. Techniques for management and measurement, as well as case studies from around the world, are provided. The 3rd edition includes greater coverage of resilience and systems thinking, an update on the Anthropocene as a formal geological epoch, the latest research from the IPCC, and a greater focus on diversity and social equity, together with new details such as sustainable consumption, textiles, recycling, microplastics, and net-zero concepts. The coverage in this edition has been expanded to include issues, solutions, and new case studies from around the world, including Europe, Asia, and the Global South. Chapters include

further reading and discussion questions The book is supported by a companion website with online links annotated bibliography glossary white papers and additional case studies together with projects research problems and group activities all of which focus on real world problem solving of sustainability issues This textbook is designed to be used by undergraduate college and university students in sustainability degree programs and other programs in which sustainability is taught

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