

Mohammad Dastbaz · Ian Strange
Stephen Selkowitz *Editors*

Building Sustainable Futures

Design and the Built Environment

 Springer

Building Sustainable Futures Design And The Built Environment

Yan Bai

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Building Sustainable Futures Mohammad Dastbaz,Ian Strange,Stephen Selkowitz,2015-11-13 This book presents state of the art research and case studies on new approaches to the design construction and planning of our cities Emphasis is placed on the role of alternative and renewable energy in the development of urban infrastructures that enable sustainable futures Reflecting the multi faceted efforts required to successfully meet sustainability challenges this book is a collaboration between practitioners and academics across a broad spectrum of specializations Compelling research findings are explained in the context of practical implementation enhanced by case studies from industry leaders in order to create a pragmatic reference across policy areas where environmentally aware decision making is required *Sustainable Futures in the Built Environment to 2050* Tim Dixon,John Connaughton,Stuart Green,2018-01-09 Brings together leading thinking on issues of new professional practice and on the future of a sustainable built environment This book focuses on both construction and development issues and examines how we can transition to a sustainable future by the year 2050 bringing together leading research and practice at building neighbourhood and city levels It deftly analyses how emerging socio economic technological and environmental trends will influence the built environment of the future The book covers a broad spectrum of interests across the scales of buildings communities and cities including how professional practice will need to adapt to these trends The broader context is provided by an analysis of emergent business models and the changing requirements for expert advice from clients Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development features chapters covering data and trends including historical data and UK and international case studies policies and practice related to the field current state of scientific understanding key challenges key technological advances including disruptive and systemic technological innovations change issues and critical uncertainties and future visions It provides A strong conceptual framework based on a Foresight approach Discussion of the key data and trends that underpin each chapter Coverage of both construction and property development Specially commissioned chapters by academics and practitioners A synthesis of the main findings in the book and key insights for the future to 2050 Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development is an important book for postgraduate students and researchers construction real estate and property development specialists engineers planners architects foresight and futures studies specialists and anyone involved in sustainable buildings

Envisioning the Futures - Designing and Building for People and the Environment Rossano Albatini,Michela Dalprà,Maria Paola Gatti,Gianluca Maracchini,Simone Torresin,2025-11-24 This book gathers the proceedings of the 12th International Conference of Ar Tec Scientific Society of Architectural Engineering Colloqui AT e which was held in Trento Italy on June 11 14 2025 and brought together scholars in the fields of construction and conservation history building construction and performance building design and technologies Digital transition and design of 4 0 buildings digital twins for the management of historical building

heritage building human environment relationships and mitigation of vulnerabilities for the preservation of the built environment are also explored The contributions demonstrate that architectural engineering enables the construction of sustainable resilient adaptive and high performance buildings and as such is instrumental in fighting against climate change

Future Challenges in Evaluating and Managing Sustainable Development in the Built Environment Peter S.

Brandon,Patrizia Lombardi,Geoffrey Q. Shen,2024-09-23 *Future Challenges in Sustainable Development within the Built Environment* stimulates and reinterprets the demands of Responsible and Sustainable Development in the Built Environment for future action and development It examines the methods of evaluation the use of technology the creation of new models and the role of human factors for examining and developing the subject over the next twenty years **Building Surveyor's**

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Industry 4.0 and Engineering for a Sustainable Future Mohammad Dastbaz,Peter Cochrane,2019-04-23 This unique volume considers the emergence of Industry 4 0 i4 0 and the many ways the multifaceted field of Engineering is transforming our ideas and our options around sustainability It points to emerging technological advances that are facilitating industrial process improvements to artificial intelligence s promise to help us live smartly and manage energy demand Engineering for a sustainable future is an exploding area of research This book provides coverage of key case studies from industrial partners such as Ericsson British Telecom BT BMW Matrixx and research from different UK and international institutions Examines Smart Engineering Design Considers how Communication Technologies are developing in the age of i4 0 from 4G to 6G and beyond Using interesting case studies from large manufacturers such as BMW to examine Rapid Prototyping and Digital manufacturing Covers some key issues about Big Data and network security and discusses Blockchain Provides fresh insight into Artificial Intelligence AI and Augmented Reality Discusses global warming and discusses how urban heat islands are having a detrimental impact on the health and wellbeing of inhabitants in major cities Provides interesting case studies to determine the industry 4 0 I4 0 readiness of eight Central and Eastern European countries CEECs **Ergonomics and**

Human Factors for a Sustainable Future Andrew Thatcher,Paul H.P. Yeow,2018-04-04 This book focuses on different sustainable products and services such as electrical vehicles green buildings and biophilic and biomimetic systems at multiple hierarchical levels within its chapters The authors reflect on individual organisational governmental political and moral considerations of how Human Factor Ergonomics can build a sustainable future This book is a must read for anyone concerned with environmental issues and sustainability **Vernacular Architecture: Towards a Sustainable Future** C.

Mileto,F. Vegas,L. García Soriano,V. Cristini,2014-08-28 Sustainability is a concept that has monopolised a large number of the scientific debates in a wide range of spheres connected not only with architecture urban planning and construction but also with the product market tourism culture etc However sustainability is indissolubly linked to vernacular architecture and the lessons this architectu **Sustainability Assessment of Built Environment** Gopal Alapure,Abraham

George,2025-02-18 This book focuses on developing a holistic sustainability assessment model for built environment that can help in identifying sustainability issues and parameters for the built environment It covers a wide range of sustainable built form issues in the local and regional contexts The volume identifies significant built form sustainability indicators criteria and sub criterion while highlighting the importance of incorporating sustainability principles and assessment of sustainability It also discusses the data collection process for defining priorities of sustainability parameters using the Analytic Hierarchy Process AHP technique The book presents information to obtain fuzzy weights to classify assessed built form The chapters in this book explain the development of an integrated built environment assessment system for infrastructure projects This book will be of interest to students teachers and researchers of planning architecture construction urban studies interior designing urban planning and civil engineering It will also be useful for architects planners civil engineers interior designers builders developers green building assessors and those interested in the sustainable assessment built environment and urban development *Building Information Modelling, Building Performance, Design and Smart Construction* Mohammad

Dastbaz,Chris Gorse,Alice Moncaster,2017-03-31 This book charts the path toward high performance sustainable buildings and the smart dwellings of the future The volume clearly explains the principles and practices of high performance design the uses of building information modelling BIM and the materials and methods of smart construction Power Systems Architecture Material Science Civil Engineering and Information Systems are all given consideration as interdisciplinary endeavours are at the heart of this green building revolution

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