

Human Factors In The Built Environment

The Built Environment The Meaning of the Built Environment Welcome to Your World Design, Technology and the Development Process in the Built Environment Creating the Built Environment Expanding Boundaries: Systems Thinking in the Built Environment Evaluation of the Built Environment for Sustainability Design in the Built Environment Design in the Built Environment Design and Management of Sustainable Built Environments A Theology of the Built Environment The Built Environment: Environmental technology, constructional engineering, building and materials City of Layers Sustainable Practices in the Built Environment Professionalism for the Built Environment Greening the Built Environment Designing Better Buildings Human Factors in the Built Environment Sustainable Design for the Built Environment Evaluating Sustainable Development in the Built Environment Wendy R. McClure Amos Rapoport Sarah Williams Goldhagen Tom Collier Leslie Holes Guillaume Habert Vicenzo Bentivegna Ronald Fraser Reekie R. Fraser Reekie Running Yao Timothy Gorringe Terence M. Russell Mark Urizar Craig A. Langston Simon Foxell Maf Smith Sebastian Macmillan Linda L. Nussbaumer Rob Fleming Peter S. Brandon

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Gorringe Terence M. Russell Mark Urizar Craig A. Langston Simon Foxell Maf Smith

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this book takes a sweeping view of the ways we build things beginning at the scale of products and interiors to that of regions and global systems in doing so it answers questions on how we effect and are affected by our environment and explores how components of what we make from products buildings and cities are interrelated and why designers and planners must consider these connections

the meaning of the built environment is a lively illustrated study of the meanings of everyday buildings for their users professor rapoport uses examples and vignettes drawn from many cultures and historical eras as well as contemporary america to explicate a new framework for understanding how the built environment comes to have meaning both for individual people and whole societies

one of the nation s chief architecture critics reveals how the environments we build profoundly shape our feelings memories and well being and argues that we must harness this knowledge to construct a world better suited to human experience taking us on a fascinating journey through some of the world s best and worst landscapes buildings and cityscapes sarah williams goldhagen draws from recent research in cognitive neuroscience and psychology to demonstrate how people s experiences of the places they build are central to their well being their physical health their communal and social lives and even their very sense of themselves from this foundation goldhagen presents a powerful case that societies must use this knowledge to rethink what and how they build the world needs better designed healthier environments that address the complex range of human individual and social needs by 2050 america s population is projected to increase by nearly seventy million people this will necessitate a vast amount of new construction almost all in urban areas that will dramatically transform our existing landscapes infrastructure and urban areas going forward we must do everything we can to prevent the construction of exhausting overstimulating environments and enervating understimulating ones buildings landscapes and cities must both contain and spark associations of natural light greenery and other ways of being in landscapes that humans have evolved to need and expect fancy exteriors and dramatic forms are never enough and may not

even be necessary authentic textures and surfaces and careful well executed construction details are just as important erudite wise lucidly written and beautifully illustrated with more than one hundred color photographs welcome to your world is a vital eye opening guide to the spaces we inhabit physically and mentally and a clarion call to design for human experience

this second book in the best the built environment series of textbooks series explores the fundamental generators and contextual issues philosophical physical and political that influence built environments

the purpose of this book is to explain what buildings are and to provide an integrated overview of how they are built and sustained

consuming over 40 of total primary energy the built environment is in the centre of worldwide strategies and measures towards a more sustainable future to provide resilient solutions a simple optimisation of individual technologies will not be sufficient in contrast whole system thinking reveals and exploits connections between parts each system interacts with others on different scales materials components buildings cities and domains ecology economy and social whole system designers optimize the performance of such systems by understanding interconnections and identifying synergies the more complete the design integration the better the result in this book the reader will find the proceedings of the 2016 sustainable built environment sbe regional conference in zurich papers have been written by academics and practitioners from all continents to bring forth the latest understanding on systems thinking in the built environment

sustainability in the built environment is a major issue facing policy makers planners developers and designers in the uk europe and worldwide the measuring of buildings and cities for sustainability becomes increasingly important as pressure for green sustainable development translates into policy and legislation the problems of such measurement and evaluation are presented by the authors in contributions which move from the general to the particular e g from a general framework for an environmentally sustainable form of urban development to a specific input output model application to environmental problems the book is divided into three parts the first covers city models and sustainable systems research programmes environmental policies green corporations and collaborative strategies to make

urban development more sustainable part two discusses the problems of evaluating the built environment in planning and construction covering economic and environmental methods and construction development and regeneration processes part three illustrates a number of applications using different approaches and techniques and referring to a range of environmental aspects of the natural and built environment from maintaining historic buildings to transport management and air pollution monitoring

climate change is believed to be a great challenge to built environment professionals in design and management an integrated approach in delivering a sustainable built environment is desired by the built environment professional institutions the aim of this book is to provide an advanced understanding of the key subjects required for the design and management of modern built environments to meet carbon emission reduction targets in design and management of sustainable built environments an international group of experts provide comprehensive and the most up to date knowledge covering sustainable urban and building design management and assessment the best practice case studies of the implementation of sustainable technology and management from the bre innovation park are included design and management of sustainable built environments will be of interest to urban and building designers environmental engineers and building performance assessors it will be particularly useful as a reference book for undergraduate and postgraduate students in the built environment field

in this 2002 book tim gorrige reflects theologically on the built environment as a whole

society seems to be tied irrevocably to long term patterns of resource use and to producing unassimilatable waste emissions and ongoing environmental degradation there also are seemingly irresolvable dilemmas between humanity and nature society and ecology and utility and beauty where each decision we make seems to cause some harm to change from our present path and resolve these we must have the courage to break from traditions and use our knowhow to progressively and creatively enhance the existing built form so a new built reality emerges one that enriches people and possibly enables a sustainable future this alternate path necessitates a holistic approach one that can more effectively merge and better utilise the disciplines of architecture engineering art sciences and business to integrate the many

different parts within the built environment and produce a vibrant viable new whole with this approach we could begin to transform the built environment into an entity that virtually replicates and functions as a natural sustainable system every decision we make is important what practices processes technologies are applied to how built elements are designed placed structured configured and interfaced are all important these determine what eventuates the built form architecture and the ultimate appropriateness of the resulting outcome by determining what is appropriate this book provides a retrospective view of the semi static present built environment with its many in place processes issues constraints and opportunities and postulates what is required by visualising the possible alternatives for the always growing built environment these provide a useful insight into how the built form and urban life can be enhanced and thereby also how humanity can use architecture to live in a more equitable balance possibly in harmony and sustainably with nature

sustainable practices in the built environment is an important introduction to the subject for senior undergraduate and postgraduate students given the importance and novelty of the subject professionals in the construction industry will also find the book valuable jacket

in the aftermath of the grenfell tower tragedy this new book provides thought provoking commentary on the nature of the relationship between society the prevailing economic system and professionalism in the built environment it addresses the changing responsibilities of professionals and in particular their obligation to act in the wider public interest it is both an introduction to and an examination of professionalism and professional bodies in the sector including a view of the future of professionalism and the organisations serving it simon foxell outlines the history of professionalism in the sector comparing and contrasting the development of the three major historic professions working in the construction industry civil engineering architecture and surveying he examines how their systems have developed over time up to the current period dominated by large professional services firms and looks at some options for the future whilst asking difficult questions about ethics training education public trust and expectation from within and outside the industry the book concludes with a six point plan to help if not ensure that the professions remain an effective and essential part of both society and the economy a part that allows the system to operate smoothly and easily but also fairly and to the benefit of all essential reading for built environment professionals and students

doing the professional studies elements of their training or in the process of applying for chartership or registration the issues and lessons are applicable across all building professions

this work aims to provide a possible specification of the problems involved in greening the built environment and an articulation of the solutions it begins with a discussion of sustainability as a concept and its applicability to contemporary towns and cities the following chapters take up particular aspects of the built environment and sustainability in greater depth and include the construction industry transport health planning community and equity issues employment and the economy the links between environmental damage poverty and the economy are all themes in this book which also focuses on interconnections and on solutions to these three problems the final chapter explains how the achievement of sustainable development is in the authors opinion dependent on detailed solutions to everyday problems of modern society

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sustainable design for the built environment marks the transition of sustainable design from a specialty service to the mainstream approach for creating a healthy and resilient built environment this groundbreaking and transformative approach introduces sustainable design in a clear concise easy to read format this book takes the reader deep into the foundations of sustainable design and creates a holistic and integrative approach addressing the social cultural ecological and aesthetic aspects in addition to the typical performance driven goals the first section of the book is themed around the origins principles and frameworks of sustainable design aimed at inspiring a deeper broader and more inclusive view of sustainability the second section examines strategies such as biophilia and biomimicry adaptation and resilience health and well being the third section examines the application of sustainability principles from the global urban district building and human scale illustrating how a systems thinking approach allows sustainable design to span the context of time space and varied perspectives this textbook is intended to inspire a new vision for the future that unites human activity with natural processes to form a regenerative coevolutionary model for sustainable design by allowing the reader an insightful look into the history motivations and values of sustainable design they begin to see sustainable design not only as a way to deliver green buildings but as a comprehensive and transformative meta framework that is so needed in every sector of society

supported by extensive online resources including videos and powerpoints for each chapter this book will be essential reading for students of sustainability and sustainable design

the first edition was extremely well received providing an introduction and insight to this important topic in a comprehensive yet easy to read form it was chosen to be issued to the representatives of the organizations from the g8 and g20 countries attending the university summit held in turin in 2009 which addressed the issue of how education and research can assist sustainable development the second edition completely updated to reflect the significant advances and new insights that have been made since publication of the first edition focuses on two main issues facilitating a dialogue between all stakeholders so that the complexity of the problem can be exposed structured and communicated understanding how to assess progress in sustainable development it continues to provide coherent guidance on the techniques that can be used to assess sustainable development in a rigorous manner the approach is introduced using illustrations and case studies together with follow up references it remains the ideal starting point for those trying to get a handle on the subject and for those who wish to examine a structured and systematic approach to the evaluation of sustainable development in the built environment

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