

# Human Factors In The Built Environment

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

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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

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

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.

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.

## Table of Contents

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

making buildings and infrastructure more sustainable represents a key and global challenge this presents the results of research from the australia co operative research centre for construction innovation covering four themes applied to regeneration as well as to new build sustainable materials and manufactures virtual design construction and management integrating design construction and facility management over the project life cycle and integration across spatial scales

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

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

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

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

because of the profound effects of the built environment on the availability of natural resources for future generations those involved with designing creating operating renovating and demolishing human structures have a vital role to play in working to put society on a path toward sustainability this volume presents the thinking of leading academics and professionals in planning civil engineering economics ecology architecture landscape architecture construction and related fields who are seeking to discover ways of creating a more sustainable built environment contributors address the broad range of issues involved offering both insights and practical examples in the book stephen kellert describes the scope of the looming ecological crisis herman daly explains the unsustainability of the world s economic system and the dangers inherent in the current movement toward globalization john todd describes the evolution of wastewater processing systems inspired by natural systems john tillman lyle discusses the importance of landscape in the creation of the human environment randall arendt argues for a fundamental shift in land development patterns that would not only provide for more green space in new developments but would also increase the profitability of developers and the quality of life for new home owners thomas e graedel proposes the application of lessons learned from the emerging science of industrial ecology to the creation of green building while the transition to sustainability will not be easy natural systems provide abundant models of architecture engineering production and waste conversion that can be used in rethinking the human habitat and its interconnections this volume provides insights that can light the way to a new era in which a reshaped built environment will not only provide improved human living conditions but will also protect and respect the earth s essential natural life support systems and resources

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