Human Factors In The Built Environment

The Built EnvironmentThe Meaning of the Built EnvironmentWelcome to Your WorldGreening the Built EnvironmentRegreening the Built EnvironmentEvaluation of the Built Environment for SustainabilityCreating the Built EnvironmentDesign, Technology and the Development Process in the Built EnvironmentTotal Sustainability in the Built EnvironmentDesign in the Built EnvironmentExpanding Boundaries: Systems Thinking in the Built EnvironmentReshaping the Built EnvironmentA Theology of the Built EnvironmentThe Natural CitySustainable Futures in the Built Environment to 2050Design Professionals and the Built EnvironmentBuildings Are for PeopleThe Built EnvironmentDesign and Management of Sustainable Built EnvironmentsInventing the Built Environment Wendy R. McClure Amos Rapoport Sarah Williams Goldhagen Maf Smith Michael A. Richards Vicenzo Bentivegna Leslie Holes Tom Collier Alison Cotgrave Ronald Fraser Reekie Guillaume Habert Charles J. Kibert Timothy Gorringe Stephen B. Scharper Tim Dixon Paul Knox Bill Caplan Terence M. Russell (Architecture historian.) Runming Yao Juliana Yat Shun Kei The Built Environment The Meaning of the Built Environment Welcome to Your World Greening the Built Environment Regreening the Built Environment Evaluation of the Built Environment for Sustainability Creating the Built Environment Design, Technology and the Development Process in the Built Environment Total Sustainability in the Built Environment Design in the Built Environment Expanding Boundaries: Systems Thinking in the Built Environment Reshaping the Built Environment A Theology of the Built Environment The Natural City Sustainable Futures in the Built Environment to 2050 Design Professionals and the Built Environment Buildings Are for People The Built Environment Design and Management of Sustainable Built Environments Inventing the Built Environment *Wendy R. McClure Amos Rapoport Sarah Williams Goldhagen Maf Smith Michael A. Richards Vicenzo Bentivegna Leslie Holes Tom Collier Alison Cotgrave Ronald Fraser Reekie Guillaume Habert Charles J. Kibert Timothy Gorringe Stephen B. Scharper Tim Dixon Paul Knox Bill Caplan Terence M. Russell (Architecture historian.) Runming Yao Juliana Yat Shun Kei*

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 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

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

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

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 first textbook in sustainable construction bringing together the whole range of topics from planning through to facilities management in an accessible and engaging way and complete with illustrations and photographs written by experts and including real world case studies this book can be used as a core text or across several modules the book begins with planning issues after which each chapter charts the different stages of the construction process through to refurbishment of existing buildings this textbook is aimed at undergraduate built environment and construction students or pre degree hnd fd students in architectural technology and architecture building surveying general practice surveying urban planning property management quantity

surveying construction management facilities management and general programmes focussed on the environment it will also be of interest to professionals working for construction and property companies as there are so few resources that give a complete overview of sustainability in construction

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

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

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

urban and natural environments are often viewed as entirely separate entities human settlements as the domain of architects and planners and natural areas as untouched wilderness this dichotomy continues to drive decision making in subtle ways but with the mounting pressures of global climate change and declining biodiversity it is no longer viable new technologies are promising to provide renewable energy sources and greener designs but real change will require a deeper shift in values attitudes and perceptions a timely and important collection the natural city explores how to integrate the natural environment into healthy urban centres from philosophical religious socio political and planning perspectives recognizing the need to better link the humanities with public policy the natural city offers unique insights for the development of an alternative vision of urban life

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

brings together many of the world s leading names from the uk usa europe and asia this is the first book to fully reflect the move towards a more synthetic approach in professional and student courses

buildings are for people human ecological design offers a new approach to the process of conceiving architectural design one that considers the interactions of the built environment with people and the natural environment the book exposes our visceral and experiential connections to buildings and how buildings intervene directly with our ecosystem natural environment and sense of place it brings to light our ability to utilize a building s surfaces shape and materiality to synergize with the energy and forces of nature for a more green and sustainable architecture it points out many of the roadblocks to successful design including issues in education the profession regulation and the industry s institutions providing an awareness that heretofore is rarely discussed most importantly buildings are for people human ecological design highlights the obvious that buildings are built for people a fact that seems to have been overlooked in the last half century

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

why and how was the term built environment first introduced inventing the built environment retrieves the origin of this ubiquitous term the articulation of the built environment kei demonstrates coincided with the redefinition of education research and professional practices in architecture and town planning in 1960s britain concentrating on the half decade during which the term permeated the architectural and planning professions this book recalls a time when the built environment was conceived as a part of the british government s effort in national economic planning inventing the built environment unpacks the proposal for a research council for the built environment to mobilise architecture and town planning for political economy how a relatively small group of architects planners politicians and researchers transposed scientific thoughts from biology economics and computation into the built environment will be considered too kei highlights the assumptions about and classification of the population that were made when inventing the built environment the architectural and biosocial implications of the making and remaking of this architectural environmental notion in britain and beyond will be revealed through the works of pre eminent architect planners including richard llewelyn davies and william holford at a time when environmental concerns again take the front seat of

architectural and planning debates this book offers for scholars and students an alternative lens to reflect on the assumptions and bias that can be embedded in our architectural lexicons

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