

The Sustainable City Vi Urban Regeneration And Sustainability Wit Transactions On Ecology And The Environment

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Handbook of Clean Energy Systems, 6 Volume Set - Jinyue Yan 2015-06-22

The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed. Topics covered include: Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription.

The Sustainable City IX - N. Marchettini 2014-09-23

Containing the proceedings of the 9th International Conference on Urban Regeneration and Sustainability this book addresses the multi-disciplinary aspects of urban planning; a result of the increasing size of cities; the amount of resources and services required and the complexity of modern society. Most of earth's population now lives in cities and the process of urbanisation still continues generating many problems deriving from the drift of the population towards them. These problems can be resolved by cities becoming efficient habitats, saving resources in a way that improves the quality and standard of living. The process

however, faces a number of major challenges, related to reducing pollution, improving main transportation and infrastructure systems. New urban solutions are required to optimise the use of space and energy resources leading to improvements in the environment, i.e. reduction in air, water and soil pollution as well as efficient ways to deal with waste generation. These challenges contribute to the development of social and economic imbalances and require the development of new solutions. Large cities are probably the most complex mechanisms to manage. However, despite such complexity they represent a fertile ground for architects, engineers, city planners, social and political scientists, and other professionals able to conceive new ideas and time them according to technological advances and human requirements. The challenge of planning sustainable cities lies in considering their dynamics, the exchange of energy and matter, and the function and maintenance of ordered structures directly or indirectly, supplied and maintained by natural systems. Topics covered include: Urban strategies; Planning, development and management; Urban conservation and regeneration; The community and the city; Eco-town planning; Landscape planning and design; Environmental management; Sustainable energy and the city; Transportation; Quality of life; Waterfront development; Case studies; Architectural issues; Cultural heritage issues; Intelligent environment and emerging technologies; Planning for risk; Disaster and emergency response; Safety and security; Waste management; Infrastructure and society; Urban metabolism.

Quality of Life in Urban Landscapes - Roberta Cocci Grifoni 2017-12-14

This volume introduces an innovative tool for the development of sustainable cities and the promotion of the quality of life of city inhabitants. It presents a decision-support system to orient public administrations in identifying development scenarios for sustainable urban and territorial transformations. The authors have split the volume into five parts, which respectively describe the theoretical basis of the book, the policies in question and indicators that influence them, the decision-support system that connects indicators to policies, the case study of Ancona, Italy, and potential future directions for this work. This volume is based on transdisciplinary research completed in May 2016 that involved about 40 researchers at The University of Camerino, Italy and other European universities. With purchase of this book, readers will also have access to Electronic Supplementary Material that contains a database with groups of indicators of assessment of urban quality of life and a toolkit containing the data processing system and management information system used in the book's case study.

Sustainable Tourism IV - C. A. Brebbia 2010

Tourism has become a major international industry, with many countries all over the world relying on the income it produces. Because it is a major source of finances and employment, government and other institutions actively promote tourism, regardless of the impact on the environment, ecology and social structure of the region. The demands of tourism can contribute to the destruction of the natural and cultural environment upon which it depends. The natural and cultural landscape's capacity to accommodate the local and worldwide effects of tourism, the typology thereof and its implications for the economy and society constitute very important study objectives. The development of tourism can result in the degradation of natural landscapes that paradoxically attract tourists to such areas. Featured topics include: Tourism Strategies; Tourism as a Tool of Development; Tourism Impact; Tourism and Protected Areas; Rural Tourism; Community Involvement; IT and Tourism; Climate Change and Tourism; Environmental Issues; Art, Architecture and Culture; Modelling; Emergent Strategies for Tourism Development; Landscape and Tourism; Tourism and Urban Planning.

The Sustainable City V - A. Gospodini 2008

of the present without compromising the ability of future generations to meet their own needs. In *The Sustainable City V* many interrelated aspects of the urban environment from transport and mobility to social exclusions and crime prevention are addressed. The papers included were originally presented at the Fifth International Conference on Urban Regeneration and Sustainability and will be of interest to city planners, architects, environmental engineers and all academics, professionals and practitioners working in the wide range of disciplines associated with creating a viable urban environment. In this book the papers are published under the following topics: Architectural issues; Cultural heritage; Energy resources systems; Environmental management; Healthy cities; Indicators: ecological, economic, social; Land use and management; Mega cities; Planning issues; Planning, development and management; Public safety; Revitalisation strategies; Socio-economic issues; Spatial modelling; Strategy; Sustainable transportation and transport integration; The community and the city; Traffic and transportation; Urban-rural relationships.

Sustainable Development and Planning VI - C. A. Brebbia 2013-05-01

This book contains the proceedings of the sixth conferences on the topic of sustainable regional development organized by the Wessex Institute of Technology. First held in 2003, the conference facilitates communication between all scientists specialising in the wide range of subjects included within sustainable development and planning. These include planners, environmentalists, architects, engineers, policy makers and economists, who all must work together in order to ensure that planning leads to sustainable development that meets present needs without compromising our future. The papers included in the book cover Regional planning; City planning; Sustainability and the built environment; Cultural heritage; Environmental management; Resources management; Social and political issues; Rural developments; Sustainable solutions in developing countries; Transportation; Energy resources; Environmental economics.

The Sustainable City X - C.A. Brebbia 2015-09-01

Containing the proceedings of the 10th International Conference on Urban Regeneration and Sustainability this book addresses the multidisciplinary aspects of urban planning; a result of the increasing size of cities; the amount of resources and services required and the complexity of modern society. Most of earth's population now lives in cities and the process of urbanisation continues generating many problems deriving from the drift of the population towards them. These problems can be resolved by cities becoming efficient habitats, saving resources in a way that improves the quality and standard of living. The process, however, faces a number of major challenges, related to reducing pollution, improving main transportation and infrastructure systems. New urban solutions are required to optimise the use of space and energy resources leading to improvements in the environment, i.e. reduction in air, water and soil pollution as well as efficient ways to deal with waste generation. These challenges contribute to the development of social and economic imbalances and require the development of new solutions. Large cities are probably the most complex mechanisms to manage. However, despite such complexity they represent a fertile ground for architects, engineers, city planners, social and political scientists, and other professionals able to conceive new ideas and time them according to technological advances and human requirements. The challenge of planning sustainable cities lies in considering their dynamics, the exchange of energy and matter, and the function and maintenance of ordered structures directly or indirectly, supplied and maintained by natural systems. Topics covered include: Urban Strategies; Planning, Development and Management; Urban Conservation and Regeneration; The Community and the City; Eco-town Planning; Landscape Planning and Design; Environmental Management; Sustainable Energy and the City; Transportation; Quality of Life; Architectural Issues; Cultural Heritage Issues; Intelligent Environment and Emerging Technologies; Planning for Risk; Disaster and Emergency Response; Safety and Security; Waste Management; Infrastructure and Society; Urban Metabolism.

Urban Regeneration and Social Sustainability - Andrea Colantonio 2011-02-02

Urban regeneration is a key focus for public policy throughout Europe. This book examines social sustainability and analyses its meaning. The authors offer a comprehensive European perspective to identify best practices in sustainable urban regeneration in five major cities in Spain, Italy, Netherlands, Germany, and the UK. This authoritative overview of the scholarly literature makes the book essential reading for researchers

and post-graduate students in sustainable development, real estate, geography, urban studies, and urban planning, as well as consultants and policy advisors in urban regeneration and the built environment.

Urban Regeneration - Peter Roberts 2000-02-11

Providing students and practitioners with a detailed overview of the key theoretical and applied issues, this book is a comprehensive and integrated primer on regeneration. The various chapters: review the history and context of urban regeneration; consider funding implications; look at environmental, social and community issues, as well as employment, education and training; focus on managing urban regeneration; consider land use issues; and discuss monitoring and evaluation. The book concludes with a comparative analysis, with examples from America and Europe, and a discussion of future trends. The book represents the first systematic overview of urban regeneration in one volume and is set to become the standard reference

The Vertical City - K. Al-Kodmany 2018-06-25

Each century has its own unique approach toward addressing the problem of high density and the 21st century is no exception. As cities try to cope with rapid population growth - adding 2.5 billion dwellers by 2050 - and grapple with destructive sprawl, politicians, planners and architects have become increasingly interested in the vertical city paradigm. Unfortunately, cities all over the world are grossly unprepared for integrating tall buildings, as these buildings may aggravate multidimensional sustainability challenges resulting in a "vertical sprawl" that could have worse consequences than "horizontal" sprawl. By using extensive data and numerous illustrations this book provides a comprehensive guide to the successful and sustainable integration of tall buildings into cities. A new crop of skyscrapers that employ passive design strategies, green technologies, energy-saving systems and innovative renewable energy offers significant architectural improvements. At the urban scale, the book argues that planners must integrate tall buildings with efficient mass transit, walkable neighbourhoods, cycling networks, vibrant mixed-use activities, iconic transit stations, attractive plazas, well-landscaped streets, spacious parks and engaging public art. Particularly, it proposes the Tall Building and Transit Oriented Development (TB-TOD) model as one of the sustainable options for large cities going forward. Building on the work of leaders in the fields of ecological and sustainable design, this book will open readers' eyes to a wider range of possibilities for utilizing green, resilient, smart, and sustainable features in architecture and urban planning projects. The 20 chapters offer comprehensive reading for all those interested in the planning, design, and construction of sustainable cities.

Dimensions of the Sustainable City - Mike Jenks 2009-12-17

The CityForm consortium's latest book, *Dimensions of the Sustainable City*, is the first book to report on an empirical multi-disciplinary study specifically designed to address urban sustainability. Drawing together the various dimensions of sustainability - economic, social, transport, energy and ecological - the book examines their relationships both to each other and to urban form. The book investigates the sustainability dimensions of cities through a series of projects based on a common list of elements of urban form, and which draw on the consortium's latest research to review the sustainability issues of each dimension. The elements of urban form include density, land use, location, accessibility, transport infrastructure and characteristics of the built environment. The book also addresses issues such as adapting cities, psychological and ecological benefits of green space and sustainable lifestyles, each presenting a critical review of the relevant literature followed by an empirical analysis presenting the key results. Based on studies across five UK cities, the book draws out findings of relevance to sustainable cities worldwide. As well as an invaluable reference to researchers in sustainable planning and urban design, the book will provide a useful text for advanced undergraduate and graduate courses and for policy makers dealing with these issues. The CityForm consortium is a multi-disciplinary group of researchers from five universities funded by the UK Engineering and Physical Science Research Council from 2003-07.

Environmental Justice and Urban Resilience in the Global South - Adriana Allen 2017-12-05

This edited volume provides a fresh perspective on the important yet often neglected relationship between environmental justice and urban resilience. Many scholars have argued that resilient cities are more just cities. But what if the process of increasing the resilience of the city as a whole happens at the expense of the rights of certain groups? If urban resilience focuses on the degree to which cities are able to reorganise in creative ways and adapt to shocks, do pervasive inequalities in access to

environmental services have an effect on this ability? This book brings together an interdisciplinary and intergeneration group of scholars to examine the contradictions and tensions that develop as they play out in cities of the Global South through a series of empirically grounded case studies spanning cities of Asia, Latin America, Africa and Eastern Europe.

The Routledge Handbook of Planning Theory - Michael Gunder
2017-08-23

The Routledge Handbook of Planning Theory presents key contemporary themes in planning theory through the views of some of the most innovative thinkers in planning. They introduce and explore their own specialized areas of planning theory, to conceptualize their contemporary positions and to speculate how these positions are likely to evolve and change as new challenges emerge. In a changing and often unpredictable globalized world, planning theory is core to understanding how planning and its practices both function and evolve. As illustrated in this book, planning and its many roles have changed profoundly over the recent decades; so have the theories, both critical and explanatory, about its practices, values and knowledges. In the context of these changes, and to contribute to the development of planning research, this handbook identifies and introduces the cutting edge, and the new emerging trajectories, of contemporary planning theory. The aim is to provide the reader with key insights into not just contemporary planning thought, but potential future directions of both planning theory and planning as a whole. This book is written for an international readership, and includes planning theories that address, or have emerged from, both the global North and parts of the world beyond.

Conflicted Identities - Alexandra Staub 2015-10-23

Nation-states have long used representational architecture to create symbolic identities for public consumption both at home and abroad. Government buildings, major ensembles and urban plans have a visibility that lends them authority, while their repeated portrayals in the media cement their image as icons of a shared national character. Existing in tandem with this official self, however, is a second, often divergent identity, represented by the vast realm of domestic space defined largely by those who occupy it as well as those with a vested interest in its cultural meaning. Using both historical inquiry and visual, spatial and film analysis, this book explores the interaction of these two identities, and its effect on political control, class status, and gender roles. *Conflicted Identities* examines the politicization of both public and domestic space, especially in societies undergoing rapid cultural transformation through political, social or economic expansion or restructuring, when cultural identity is being rapidly "modernized", shifted, or realigned to conform to new demands. Using specific examples from a variety of national contexts, the book examines how vernacular housing, legislation, marketing, and media influence a large, but often underexposed domestic culture that runs parallel to a more publicly represented one. As a case in point, the book examines West Germany from the end of World War II to the early 1970s to probe more deeply into the mechanisms of such cultural dichotomy. On a national level, post-war West Germany demonstratively rejected Nazi-era values by rebuilding cities based on interwar modernist tenets, while choosing a decidedly modern and transparent architecture for high-visibility national projects. In the domestic realm, government, media and everyday citizens countered this turn to state-sponsored modernism by embracing traditional architectural aesthetics and housing that encouraged patriarchal family structures. Written for readers interested in cultural theory, history, and the politics of space as well as those engaged with architecture and the built environment, *Conflicted Identities* provides an engaging new perspective on power and identity as they relate to architectural settings.

Regenerative Urban Design and Ecosystem Biomimicry - Maibritt Pedersen Zari 2018-05-20

It is clear that the climate is changing and ecosystems are becoming severely degraded. Humans must mitigate the causes of, and adapt to, climate change and the loss of biodiversity, as the impacts of these changes become more apparent and demand urgent responses. These pressures, combined with rapid global urbanisation and population growth mean that new ways of designing, retrofitting and living in cities are critically needed. Incorporating an understanding of how the living world works and what ecosystems do into architectural and urban design is a step towards the creation and evolution of cities that are radically more sustainable and potentially regenerative. Can cities produce their own food, energy, and water? Can they be designed to regulate climate, provide habitat, cycle nutrients, and purify water, air and soil? This book

examines and defines the field of biomimicry for sustainable built environment design and goes on to translate ecological knowledge into practical methodologies for architectural and urban design that can proactively respond to climate change and biodiversity loss. These methods are tested and exemplified through a series of case studies of existing cities in a variety of climates. *Regenerative Urban Design and Ecosystem Biomimicry* will be of great interest to students, professionals and researchers of architecture, urban design, ecology, and environmental studies, as well as those interested in the interdisciplinary study of sustainability, ecology and urbanism.

Urban Regeneration - Steffen Lehmann 2019-02-28

Urban Regeneration — A Manifesto for transforming UK Cities in the Age of Climate Change explores and offers guidance on the complex process of how to transform cities, continuing the unfinished project of the seminal 1999 text *Towards an Urban Renaissance*. It is a 21st-century manifesto of urban principles compiled by a prominent urbanist, for the regeneration of UK cities, focusing on the characteristics of a 'good place' and the strategies of sustainable urbanism. It asks readers to consider how we can best transform the derelict, abandoned and run-down parts of cities back into places where people want to live, work and play. The book frames an architecture of re-use that translates and combines the complex 'science of cities' and the art of urban and architectural design into actionable and practical guidance on how to regenerate cities. Fascinated by the typology and value of the compact UK and European city model, Lehmann introduces the concept of 'high density without high buildings' as a solution that will make our cities compact, walkable, mixed-use and vibrant again.

Green Building Transitions - Julia Affolderbach 2018-05-15

This volume analyzes sustainability-related innovations in the building sector and discusses how regional contexts articulate transition trajectories toward green building. It presents 'biographies' of drivers and processes of green building innovation in four case studies: Brisbane (AUS), Freiburg (GER), Luxembourg (LU), and Vancouver (CA). Two of them are relatively well known for their initiatives to mitigate climate change - particularly in the building sector, whereas the other two have only recently become more active in promoting green building. The volume places emphasis on development paths, learning processes, and innovations. The focus of the case studies is not restricted to purely technological aspects but also integrates regulatory, procedural, institutional, and other processes and routines and their influence on the variations of the building sector. The diversity of the selected case studies offers the reader the opportunity to gain a thorough understanding of how sustainability developments have unfolded in different city regions. Case study-specific catalogues of transition paths provide insights to inform policy debates and planning processes. The catalogues identify crucial innovations (technological, regulatory, etc.) and explain the factors and circumstances that have led to their success and broader acceptance in Freiburg, Vancouver, Luxembourg, and Brisbane. With the help of a number of micro case studies within each of the four city regions, the case studies also offer ground for comparison and identification of differences. The book represents the outcome of the GreenRegio project, which stands for 'Green building in regional strategies for sustainability: multi-actor governance and innovative building technologies in Europe, Australia, and Canada.' GreenRegio was a 3-year CORE-INTER research project funded by the National Research Fund Luxembourg (FNR) and the German Research Foundation (DFG).

The Sustainable World - C. A. Brebbia 2011

This book contains a collection of papers presented at a series of meetings organised by the Wessex Institute of Technology (WIT) dealing with sustainability, the environment and ecological issues. The complexity of the modern world presents new challenges to scientists and engineers that requires finding interdisciplinary solutions. Any problem solving carried out in the isolation of a particular field of expertise may give rise to a series of damaging effects which can create new and unintentional environmental and ecological problems. Specialisation, while required in our culture, needs to be kept under control by the understanding of the whole, which leads to the need of relying on interdisciplinary teams. Nowadays this can be easily achieved thanks to the massive advances in information technology which ensure continuous and immediate contact between all partners. This collaboration needs to be effective and to produce results that will lead to a better world. For this to happen, it is necessary that different groups of scientists and engineers acquire the necessary skills to be able to talk to each other. Furthermore, they need to understand the social and economic aspects of a given problem, in addition to the scientific and

engineering issues involved. The Wessex Institute of Technology (WIT) has a long and very successful record in organising interdisciplinary conferences. The papers in this book are a reflection of the proceedings of some of those meetings.

Sustainable Urban Regeneration - Kevin Dean 2022

"This book provides a deep insight into urban regeneration schemes and explores the parameters of what is deemed a sustainable development, before appraising existing schemes' evaluation models for the sustainable return on investment"--

The Sustainable City VII - M. Pacetti 2012-05-07

Containing research on sustainable urban redevelopment presented at the latest in a biennial series organised by the Wessex Institute of Technology, this book addresses an area of growing interest. The conference series was first held in 2000. These proceedings are split into two volumes. Urban areas produce a series of environmental challenges arising from the consumption of natural resources and the consequent generation of waste and pollution, contributing to the development of social and economic imbalances. All these problems, which continue to grow in our society, require the development of new solutions. Topics include: Volume I - Urban Strategies; Eco-town Planning; Planning, development and management; Planning, development and management for urban conservation and regeneration; Case studies; Landscape planning and design; Environmental management; Intelligent environments and emerging technologies. Volume II - Sustainable energy and the city; Waterfront developments; The community and the city; Quality of life; Cultural heritage issues; Transportation; Planning for risk; Planning for risk; Transport models in emergency conditions; Industrial wastes as raw materials; Waste management; Safety and security; The city heritage.

Pathways to Urban Sustainability - National Academies of Sciences, Engineering, and Medicine 2016-11-11

Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth of urban areas presents a number of concerns for a sustainable future, particularly if cities cannot adequately address the rise of poverty, hunger, resource consumption, and biodiversity loss in their borders. Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas, this study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions. It focuses on nine cities across the United States and Canada (Los Angeles, CA, New York City, NY, Philadelphia, PA, Pittsburgh, PA, Grand Rapids, MI, Flint, MI, Cedar Rapids, IA, Chattanooga, TN, and Vancouver, Canada), chosen to represent a variety of metropolitan regions, with consideration given to city size, proximity to coastal and other waterways, susceptibility to hazards, primary industry, and several other factors.

The Sustainable City VI - C. A. Brebbia 2010

Addresses the multi-disciplinary aspects of urban planning, a result of the increasing size of cities, the amount of resources and services required and the complexity of modern society. Innovative tools are required for identifying the high complexity of contemporary cities. It is necessary to provide a more scientific approach to urban studies, inspired by Prigogine's theories of dissipative structures, and to highlight relations between different systems and between systems and the environment. The challenge of placing sustainable contemporary cities lies in considering the dynamics of urban systems, exchange of energy and matter and the function and maintenance of ordered structures directly or indirectly supplied and maintained by natural systems. The task of researchers, aware of the complexity of the contemporary city, is to increase the capacity to manage human activities pursuing welfare and prosperity in sustainable cities.

Smart Urban Regeneration - Simon Huston 2017-09-01

The role of real estate in our cities is crucial to building sustainable and resilient urban futures. Smart Urban Regeneration brings together institutional, planning and real estate insights into an innovative regeneration framework for academics, students and property professionals. Starting by identifying key urban issues within the

historical urban and planning backdrop, the book goes on to explore future visions, the role of institutions and key mechanisms for smart urban regeneration. Throughout the book, international case studies and discussion questions help to draw out global implications for urban stakeholders. Real estate professionals face a real challenge to build visionary developments which resonate locally yet mitigate climate change and curb sprawl, and foster biodiversity. By avoiding the dangers of speculative excess on one side and complacency on the other, Smart Urban Regeneration shows how transformation aspirations can be achieved sustainably. Academics, students and professionals who are involved in real estate, urban planning, property investment, community development and sustainability will find this book an essential guide to smart urban regeneration investment.

Adopting a Territorial Approach to Food Security and Nutrition Policy - OECD 2016-04-29

Food insecurity and malnutrition are major concerns, especially in rural areas. Globally, they have received considerable attention, but results have been mixed. To provide effective long-term solutions, policy responses must be tailored to the specific challenges of each territory.

Regeneration of the Built Environment from a Circular Economy Perspective - Stefano Della Torre 2019-01-01

This open access book explores the strategic importance and advantages of adopting multidisciplinary and multiscale approaches of inquiry and intervention with respect to the built environment, based on principles of sustainability and circular economy strategies. A series of key challenges are considered in depth from a multidisciplinary perspective, spanning engineering, architecture, and regional and urban economics. These challenges include strategies to relaunch socioeconomic development through regenerative processes, the regeneration of urban spaces from the perspective of resilience, the development and deployment of innovative products and processes in the construction sector in order to comply more fully with the principles of sustainability and circularity, and the development of multiscale approaches to enhance the performance of both the existing building stock and new buildings. The book offers a rich selection of conceptual, empirical, methodological, technical, and case study/project-based research. It will be of value for all who have an interest in regeneration of the built environment from a circular economy perspective.

The Future of the City - Kheir Al-Kodmany 2013

Drawing on the experience of several cities from different parts of the world, this text provides a global perspective on the urbanization phenomenon and tall building development, and examines their underlying logic, design drivers, contextual relationships and pitfalls.

Global Planning Innovations for Urban Sustainability - Sébastien Darchen 2018-11-01

As the world becomes more urbanised, solutions are required to solve current challenges for three arenas of sustainability: social sustainability, environmental sustainability and urban economic sustainability. This edited volume interrogates innovative solutions for sustainability in cities around the world. The book draws on a group of 12 international case studies, including Vancouver and Calgary in Canada, San Francisco and Los Angeles in the US (North America), Yogyakarta in Indonesia, Seoul in Korea (South-East Asia), Medellin in Colombia (South America), Helsinki in Finland, Freiburg in Germany and Seville in Spain (Europe). Each case study provides key facts about the city, presents the particular urban sustainability challenge and the planning innovation process and examines what trade-offs were made between social, environmental and economic sustainability. Importantly, the book analyses to what extent these planning innovations can be translated from one context to another. This book will be essential reading to students, academics and practitioners of urban planning, urban sustainability, urban geography, architecture, urban design, environmental sciences, urban studies and politics.

Regenerating London - Rob Imrie 2009-01-13

Regenerating London explores latest thinking on urban regeneration in one of the fastest changing world cities. Engaging with social, economic, and political structures of cities, it highlights paradoxes and contradictions in urban policy and offers an evaluation of the contemporary forms of urban redevelopment.

Regenerative-Adaptive Design for Sustainable Development - Phillip B. Roös 2020-09-15

In this book, the author tests a regenerative-adaptive pattern language theory towards investigating the possibilities of a holistic, integrated design and planning method for sustainable development that incorporates the principles of regenerative design, as well as an adaptive

pattern language that re-establishes our wholeness with nature, and considers the vulnerabilities of a changing landscape. The book examines an integral approach to contemporary theories of planning and design that explores the human-nature relationship patterns in social and spatial interconnections, between people and their natural environments. The interconnectedness of human and natural systems is used to scaffold possible solutions to address key environmental and sustainability issues that specifically address the need for patterns of behaviour that acknowledge the duality of 'man and nature'. In 12 chapters, the book presents a holistic, regenerative-adaptive pattern language that encapsulates how communities can better appreciate landscape change under future climate effects, and acknowledges the importance to adapt to patterns of change of place and the environment and therefore inform the communities' responses for sustainable development. The application of the regenerative-adaptive pattern language was tested along the Great Ocean Road region of the Victorian coast in Australia. The concluding chapters argue that for human settlements and cities to be resilient and sustainable, we must understand the interconnected patterns of human-built environments and natural systems, and how we function in a social-spatial dimension with these. The book is intended for practitioners and academic scholars with interest in sustainable development, regenerative design, pattern languages, biophilia, settlement planning, and climate change adaptation.

The Sustainable City IV - C. A. Brebbia 2006

Urban areas produce a series of environmental problems arising from the consumption of natural resources and the consequent generation of waste and pollution. These problems contribute to the development of social and economic imbalances. All these problems, which continue to grow in our society, require new solutions. This book addresses the many inter-related aspects of the urban environment from transport and mobility to social exclusion and crime prevention. Publishing papers from the Fourth International Conference on Urban Regeneration and Sustainability, the volume includes topics such as: Strategy and Development; Planning; Development and Management; Environmental Management; Planning Issues; Socio-economic Issues; The community and the City; Cultural Heritage; Architectural Issues; Traffic and Transportation; Land Use and Management; Public Safety; Conservation of Resources; Sustainable Transportation and Transport Integration; Depleted Ecological Resources; Environmental Pollution; Energy Resources Systems.

New Metropolitan Perspectives - Carmelina Bevilacqua 2014-07-01

Collection of selected, peer reviewed papers from the 1st International NEW METROPOLITAN PERSPECTIVES. The Integrated Approach of Urban Sustainable Development through the Implementation of Horizon/Europe2020 (ISTH2020), May 6-9, 2014, Reggio Calabria, Italy. The 96 papers are grouped as follows: I. The Integrated Approach in Europe 2020: Urban and Marginal Areas in Local Economic Development Strategies, II. The Integrated Approach of Sustainable Urban Development, III. Metropolitan City: Issues and Challenges, IV. Urban Regeneration: Community Involvement and PPP, V. Urban/Rural - The Role of Urban/Rural Regeneration in Regional Context, VI. Heritage and Identity, VII. Economic-Estimative Dynamics and Valuation Tools.

Eco-Towers - K. Al-Kodmany 2015-05-05

Eco-Towers introduces readers to groundbreaking designs, most progressive projects, and innovative ways of thinking about a new generation of green skyscrapers that could provide solutions to crises the world faces today including climate change, depleting resources, deteriorating ecology, population increase, decreasing food supply, urban heat island effect, pollution, deforestation, and more. The book suggests that the eco-tower culminates the cultural and technological evolutions of the 21st century by building and improving on the experiences of earlier designs of skyscrapers and philosophies particularly green, sustainable, and ecological. It argues that the true green skyscraper is the one that engages successfully with its larger urban context by establishing symbiotic relationships with the social, economic, and environmental aspects. Since tall buildings are becoming larger and taller, serving greater number of people, and exerting higher demand on the environment and existing infrastructure, any improvements in their design and construction will significantly enhance urban conditions. The book elucidates how green skyscrapers better serve tenants, mitigate environmental impacts, and improve integration with the city infrastructure. It explains how skyscrapers' long life cycle offers the greatest justifications for recycling precious resources, and makes it a worthwhile to employ green features in constructing new skyscrapers and retrofitting existing ones. Subsequently, the book

explores new designs that are employing cutting-edge green technologies at a grand scale including water-saving technologies, solar panels, helical wind turbines, sunlight-sensing LED lights, rainwater catchment systems, graywater and blackwater recycling systems, seawater-powered air conditioning, and the like. In the future, new building materials and smart technologies will continue to offer innovative design approaches to sustainable tall buildings with new aesthetics, referred to as "eco-iconic" skyscrapers.

Urban Centres in Asia and Latin America - Simone Sandholz 2016-09-20

This book presents an overview of the challenges that cities in Latin America and Asia are facing regarding the preservation of their tangible and intangible heritage. It argues that urban heritage has a value that transcends the mere object's value, constituting a crucial source of identity for urban inhabitants. The same is true for the urban intangible values and practices that are often associated with places or buildings. The empirical research is based on case studies of Kathmandu in Nepal, Yogyakarta in Indonesia and Recife in Brazil; three cities that still comprise core areas with a high percentage of historic fabric and distinctive cultural expressions. The comparative study of the three areas reveals the similarities and differences of urban conservation policies, past and present upgrading strategies in the core areas, and the importance of tangible and intangible heritage. All three cities demonstrate that urban heritage, habits and beliefs are still of importance to the population. While there are significant differences in the kind and level of protection the respective legal system provides, partly uncontrolled urban dynamics pose a threat to all of them. The text is based on a PhD thesis submitted to the Institute of Geography, University of Innsbruck, Austria.

Cities and Development - Sean Fox 2016-02-11

For the first time in human history more people now live in towns and cities than in rural areas. In the wealthier countries of the world, the transition from predominantly rural to urban habitation is more or less complete. But in many parts of Africa, Asia and Latin America, urban populations are expanding rapidly. Current UN projections indicate that virtually all population growth in the world over the next 30 years will be absorbed by towns and cities in developing countries. These simple demographic facts have profound implications for those concerned with understanding and addressing the pressing global development challenges of reducing poverty, promoting economic growth, improving human security and confronting environmental change. This revised and expanded second edition of *Cities and Development* explores the dynamic relationship between urbanism and development from a global perspective. The book surveys a wide range of topics, including: the historical origins of world urbanization; the role cities play in the process of economic development; the nature of urban poverty and the challenge of promoting sustainable livelihoods; the complexities of managing urban land, housing, infrastructure and urban services; and the spectres of endemic crime, conflict and violence in urban areas. This updated volume also contains two entirely new chapters: one that examines the links between urbanisation and environmental change, and a second that focuses on urban governance and politics. Adopting a multidisciplinary perspective, the book critically engages with debates in urban studies, geography and international development studies. Each chapter includes supplements in the form of case studies, chapter summaries, questions for discussion and suggested further readings. The book is targeted at upper-level undergraduate and graduate students interested in geography, urban studies and international development studies, as well as policy makers, urban planners and development practitioners.

Concrete Cities - Rob Imrie 2021-10-26

Global building and construction cultures are hard-wired to constructing too much, too badly, with major social and ecological consequences. Rob Imrie calls us to build less and to build better as a pre-requisite for enhancing welfare and well-being.

The Sustainable City VIII (2 Volume Set) - S.S. Zubir 2013-12-03

With majority of the Earth's people now urban dwellers, and cities being the most efficient habitat for the utilisation of resources, it is imperative that we continue to support standards of living and efficiencies of urban areas. However, the urbanisation process has not been without its problems. While much has been done to address the original issues surrounding the quality of urban life, new challenges continue to arise. It is no longer sustainable to achieve improvements by means that require greater and greater energy consumption as we did in the past. Despite their complexity, however, cities are a great laboratory for architects, engineers, and other key professionals to apply new ideas and new

technology to meet our requirements for more sustainable city environments. Containing papers presented at the latest in a series of conferences organised by the Wessex Institute of Technology, these proceedings, split in to two volumes address not just environmental, architectural, and engineering concerns, but also quality of life, security, risk, and heritage. The diversity of topics and the case studies based on existing projects make the book an important contribution to the literature on urban planning.

European Climate Diplomacy in the USA and China - Katrin Buchmann 2022-08-22

In this book, Katrin Buchmann offers a fascinating and insightful account of the efforts of several European embassies to create alliances in the United States and in China to support the UN climate negotiations leading up to COP15.

The Routledge Companion to Urban Regeneration - Michael E. Leary 2013-10-30

In the past decade, urban regeneration policy makers and practitioners have faced a number of difficult challenges, such as sustainability, budgetary constraints, demands for community involvement and rapid urbanization in the Global South. Urban regeneration remains a high profile and important field of government-led intervention, and policy and practice continue to adapt to the fresh challenges and opportunities of the 21st century, as well as confronting long standing intractable urban problems and dilemmas. This Companion provides cutting edge critical review and synthesis of recent conceptual, policy and practical developments within the field. With contributions from 70 international

experts within the field, it explores the meaning of 'urban regeneration' in differing national contexts, asking questions and providing informed discussion and analyses to illuminate how an apparently disparate field of research, policy and practice can be rendered coherent, drawing out common themes and significant differences. The Companion is divided into six sections, exploring: globalization and neo-liberal perspectives on urban regeneration; emerging reconceptualizations of regeneration; public infrastructure and public space; housing and cosmopolitan communities; community centred regeneration; and culture-led regeneration. The concluding chapter considers the future of urban regeneration and proposes a nine-point research agenda. This Companion assembles a diversity of approaches and insights in one comprehensive volume to provide a state of the art review of the field. It is a valuable resource for both advanced undergraduate and postgraduate students in Urban Planning, Built Environment, Urban Studies and Urban Regeneration, as well as academics, practitioners and politicians.

Urban Regeneration in Europe - Chris Couch 2008-04-15

This book provides a comparative account of the process of urban regeneration and examines the factors influencing these processes, as well as the consequences of their implementation. Through a mixture of theoretical discussion and a series of case studies a thorough examination is made of the extent to which these different European old industrial conurbations are facing similar problems.

Urban Sustainability Transitions - Niki Frantzeskaki 2017-06-14
Balanced Perspectives on Different Urban Ecosystems