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While there is a vast literature in the market on sustainable cities and urban development, there is currently none that bring together the vital issues of urban and regional development, and the planning, management and implementation of sustainable infrastructure.

~~Preface : sustainable urban and regional infrastructure ...~~

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There are several mechanisms to construct and develop sustainable urban infrastructure to take precautions against the deleterious effects of adverse sustainability conditions. The table in the Appendix B offers a summary of the main mechanisms, organized by theme. The main sustainability areas covered with concrete suggestions for enhancement in the literature are climate change, investments and decision-making, use of modern technology, waste disposal, storm water, rainfall runoff and ...

~~Sustainable urban infrastructure: A review — ScienceDirect~~

Sustainable development is defined in Highway's England's licence as "encouraging economic growth while protecting the environment and improving safety and quality of life for current and ...

~~Highways England Sustainable Development Strategy and ...~~

Sustainable Urban and Regional Infrastructure Development: Technologies, Applications and Management, bridges the gap in the current literature by addressing the overall problems present in society's major infrastructures, and the technologies that may be applied to overcome these problems.

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Sustainable urban and rural development is about improving the quality of life in a locality, including ecological, cultural, political, institutional, social and economic components without leaving any burden—e.g., the result of a reduced natural capital and an excessive local debt—on future generations.

~~Sustainable Urban and Rural Development — A section of ...~~

Sustainable urbanism is both the study of cities and the practices to build them, that focuses on promoting their long term viability by

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reducing consumption, waste and harmful impacts on people and place while enhancing the overall well-being of both people and place. Well-being includes the physical, ecological, economic, social, health and equity factors, among others, that comprise cities and their populations. In the context of contemporary urbanism, the term cities refers to several scales

## Sustainable urbanism—Wikipedia

Additionally, Stantec is partnering with the Metropolitan Water District of Southern California to develop a regional recycled water supply augmentation program. Most recently, in Los Angeles, the global firm announced its partnership with Kiewit to help remediate the San Fernando Valley Groundwater Basin and deliver clean drinking water to more than 800,000 Angelenos.

"This book aims to bridge the gap in the current literature by addressing the overall problems present in major infrastructure in society, and the technologies that may be applied to overcome these problems"--Provided by publisher.

“Green Stormwater Infrastructure for Sustainable Urban and Rural Development” offers some of the latest international scientific and practitioner findings around the adaptation of urban, rural and transportation infrastructures to climate change by sustainable water management. This book addresses the main gaps in the up-to-date literature and provides the reader with a holistic view, ranging from a strategic and multiscale planning, implementation and decision-making angle down to the engineering details for the design, construction, operation and maintenance of green stormwater techniques such as sustainable drainage systems (SuDS) and stormwater control measures (SCMs). This book is particularly recommended for a wide audience of readers, such as

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academics/researchers and students in the fields of architecture and landscaping, engineering, environmental and natural sciences, social and physical geography and urban and territorial planning. This book is also a resource for practitioners and professionals developing their work in architecture studios, engineering companies, local and regional authorities, water and environmental industries, infrastructure maintenance, regulators, planners, developers and legislators.

Achieving sustainable energy and resource use is vital if cities are to thrive or even function in the long term. Focusing on cities in the United Kingdom, Germany and Denmark, this book examines the mounting pressures for changes in the management style of utility services in Europe, pressures that stem from a wide range of sources such as liberalization and privatization of markets, tighter environmental standards, new economic incentives, competing technologies and changing consumption patterns. The authors show how changes in the management of utility services can contribute to achieving greater sustainability in urban regions. Whilst more efficient technology has a part to play, truly significant improvements in quality of life will be delivered only when the flow of material and energy through cities is focused on the goal of sustainability in each local context.

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

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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.

This book explores urban futures in the making, as seen through the lens of urban infrastructure. The book describes how socio-technical arrangements of energy and water provision are being recast in continuing efforts towards realising 'sustainable' transformation of cities. It critically investigates how infrastructure comes to matter by analyzing the shifting capacities and entanglements of diverse actors with these systems, the various means they use to envision, enact and contest changes, and the wide-ranging social and political implications of emerging infrastructure transitions. Drawing on original research into urban infrastructure debates and projects in Stockholm and Paris, the author develops a novel conceptual framework for studying and acknowledging the active, vital role of infrastructure in constituting a material politics of urban transformation. Straddling the latest theoretical insights and empirical investigation of urban planning practice and socio-technical engineering of systems and flows, *Redeploying Urban Infrastructure* forges new, timely reflections and perspectives which will be of interest to the growing multidisciplinary community of

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scholars investigating infrastructure and to academics and practitioners with a concern for understanding the wider politics of urban futures.

This book represents part of the result of a project undertaken by the Center for Sustainable Urban Regeneration (cSUR). The center was established in 2003 by a research fund titled the 21st Century Center of Excellence (COE) Program provided by the Ministry of Education, Culture, Sports, Science and Technology of Japan. The project leader was Shichiro Ohgaki, a professor in the Department of Urban Engineering of the University of Tokyo. cSUR integrates the four specific fields of urban planning, architecture, civil engineering, and environmental engineering with the participation of over a hundred researchers of the university. The objective of the center is to create an integrated approach to, and knowledge for, sustainable urban regeneration based on a global network of researchers and professionals; and to coordinate an international research alliance that consists of leading academic institutions worldwide. The project was carried out by four research units: A. Environment Management B. Urban Stock Management C. Social Information Management D. Action Studies Each unit consisted of smaller subunits. The third unit, which includes the contributors to this book, consisted of three smaller groups: C-1) The Next Generation Geographic Information System Integrating Human and Social Information C-2) Decoding and Analysis of Historical and Cultural Information Concerning Urban Space C-3) Participatory Planning and Urban Space Management Support Systems

This book discusses the concept and practice of a smart metropolitan region, and how smart cities promote healthy economic and spatial development. It highlights how smart metropolitan regional development can energize, reorganize and transform the legacy economy into a smart economy; how it can help embrace Information and Communications Technology (ICT);

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and how it can foster a shared economy. In addition, it outlines how the five pillars of the third industrial revolution can be achieved by smart communities. In addition, the book draws on 16 in-depth city case studies from ten countries to explore the state of the art regarding the smart economy in smart cities – and to apply the lessons learned to shape smart metropolitan economic and spatial development.

This book shows for the first time how green infrastructure can work in an African urban context. On one level it provides a major rethinking of the role of infrastructure in urban society since the creation of networked infrastructure in the early twentieth century. On another, it explores the changing paradigms of urban development through the fundamental question of how decisions are made. With a focus on Africa's fast-growing secondary towns, where 70 per cent of the urban population live, the book explains how urban infrastructure provides the key to the relationship between economic development and social equity, through the mediation of natural resources. Adopting this view enables investment to be channelled more effectively to provide the engine for economic growth, while providing equitable services for all residents. At the same time, the mediation of resource flows integrates the metabolism of the city into the wider ecosystem. This vision leads to a new way of thinking about infrastructure, giving clear definition to the concept of green infrastructure. On the basis of research gathered throughout an extensive career, John Abbott draws in particular from his experience in Ethiopia to demonstrate the ways in which infrastructure needs to respond to the economies, societies and natural environments of twenty-first century urban Africa.

Based on original research, this first volume of a set of groundbreaking new books sets out a framework for analyzing sustainable urban development and develops a set of protocols for

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evaluating the sustainability of urban development. Protocols included are for sustainable urban planning, urban property development, urban design, the construction, operation and use of buildings. Using these protocols, the book goes on to provide a directory of environmental assessment methods for evaluating the sustainability of urban development and also maps out how these assessment methods are being transformed to evaluate the environmental, economic and social sustainability of urban development. Web-based applications are increasingly being used to support this transformation and the contributors deftly cover this application and issues concerning the use of information and communication technologies for evaluating the sustainability of urban development are also dealt with. With its multidisciplinary approach, Sustainable Urban Development presents key new material for postgraduates and professionals across the built environment.

Infrastructure Planning and Finance is a non-technical guide to the engineering, planning, and financing of major infrastructure projects in the United States, providing both step-by-step guidance, and a broad overview of the technical, political, and economic challenges of creating lasting infrastructure in the 21st Century. Infrastructure Planning and Finance is designed for the local practitioner or student who wants to learn the basics of how to develop an infrastructure plan, a program, or an individual infrastructure project. A team of authors with experience in public works, planning, and city government explain the history and economic environment of infrastructure and capital planning, addressing common tools like the comprehensive plan, sustainability plans, and local regulations. The book guides readers through the preparation and development of comprehensive plans and infrastructure projects, and through major funding mechanisms, from bonds, user fees, and impact fees to privatization and competition. The rest of the book describes the individual infrastructure systems: their

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elements, current issues and a 'how-to-do-it' section that covers the system and the comprehensive plan, development regulations and how it can be financed. Innovations such as decentralization, green and blue-green technologies are described as well as local policy actions to achieve a more sustainable city are also addressed.

Chapters include water, wastewater, solid waste, streets, transportation, airports, ports, community facilities, parks, schools, energy and telecommunications. Attention is given to how local policies can ensure a sustainable and climate friendly infrastructure system, and how planning for them can be integrated across disciplines.

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