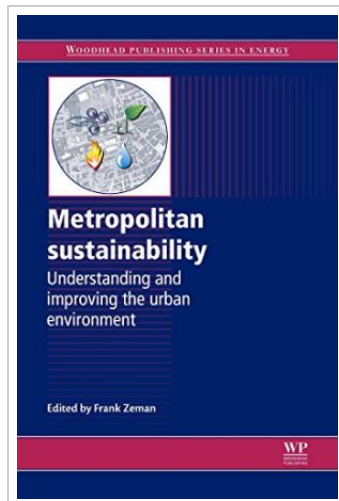




Metropolitan Sustainability: Understanding and Improving the Urban Environment (Hardback)

By -

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2012. Hardback. Condition: New. New.. Language: English . Brand New Book. Global populations have grown rapidly in recent decades, leading to ever increasing demands for shelter, resources, energy and utilities. Coupled with the worldwide need to achieve lower impact buildings and conservation of resources, the need to achieve sustainability in urban environments has never been more acute. This book critically reviews the fundamental issues and applied science, engineering and technology that will enable all cities to achieve a greater level of metropolitan sustainability, and assist nations in meeting the needs of their growing urban populations. Part one introduces key issues related to metropolitan sustainability, including the use of both urban metabolism and benefit cost analysis. Part two focuses on urban land use and the environmental impact of the built environment. The urban heat island effect, redevelopment of brownfield sites and urban agriculture are discussed in depth, before part three goes on to explore urban air pollution and emissions control. Urban water resources, reuse and management are explored in part four, followed by a study of urban energy supply and management in part five. Solar, wind and bioenergy, the role of waste-to-energy systems in the urban infrastructure,...



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