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Nota di contenuto	Urban Metabolism and Global Climate Change: An overview -- Interlinkages between Urban Metabolism and Sustainability: An overview -- Urban Metabolism - An Analytical approach for enhancing resilience -- Urban metabolism to understand changes in urban ecology: a case of Bengaluru -- City core and Urban sprawl -- Adaptive reuse of historic buildings: an ecological indicator -- Integrating ecological and social concepts for urban metabolism studies -- Sustainable urban metabolism and urban planning -- Urban metabolism in the circular bio-economy of tomorrow -- Closing the

Urban Waste Loop: Delivering Environmental and Financial Sustainability -- Transitioning Urban Agriculture to a Circular Metabolism at a Neighbourhood Level -- Eight years to go, to meet the SDG targets: Waste management as enabler and enabled -- Emerging approaches for sustainable urban metabolism -- Species Selection in Urban Forestry - towards Urban Metabolism -- Geospatial analyses for urban metabolism and climate change work -- Smart Urban Metabolism: A Big-data and Machine Learning Perspective -- Policy initiatives on urban metabolism in Ghana (2002-2021). .

Sommario/riassunto

This book provides a basic understanding and state-of-the-art of urban metabolism. Urban centres are increasingly challenged by population increase and the resultant environmental concerns including the urban sprawl and climate change. Different patterns of urbanization contribute to the changing climate via differences in their urban metabolism represented by energy and matter. Urban metabolic studies in terms of energy and material inflows, outflows, and stocks can be associated with traditional evaluation techniques to help assess the magnitude and potential effects of variety of environmental challenges the world is facing today. Urban centres are critical real time observatories that indicate the impact anthropogenic activities have on global biogeochemical cycles. Urban processes have significant and lasting impacts on the global carbon budget. The technological and infrastructural advancements have fuelled an increase in urban inputs and outputs of material and energy. Therefore, more sustainable approaches need to be adopted in changing scenarios for urban planning, particularly for sustainable resource utilization and better waste management practices. The book emphasises on the sustainability in urban metabolism, sustainable urban planning, ecosystem services, and disaster resilience to provide an interdisciplinary understanding of urban metabolism. The book also identifies an urgent need to develop new methodological approaches for real time and reliable evaluation of urban metabolism.
