

Understanding Urban Metabolism addresses the gap between the bio-physical sciences and urban planning and illustrates the advantages of accounting for urban metabolism issues in urban design decisions. Urban metabolism considers a city as a system, and distinguishes between energy and material flows as its components. Based on research from the BRIDGE project, this book deals with how the urban surface exchanges and transforms energy, water, carbon and pollutants in cities. This book also introduces a new method for evaluating how planning alternatives can modify the physical flows of urban metabolism components and how environmental and socioeconomic components interact. The inclusion of sustainability principles into urban planning provides an opportunity to place the new knowledge provided by bio-physical sciences at the centre of the planning process, but there is a strong need to bridge knowledge and practice, as well as for a better dissemination of research results and exchange of best practice. This book meets that need and provides the reader with the necessary tools to integrate an understanding of urban metabolism into urban planning practice.

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Integrated Urban Metabolism Analysis Tool (IUMAT) Urban Metabolism and Sustainability. 4. Urban Metabolism Simulation Tools importance of dissemination and development of reliable urban planning and policy tools. a comprehensive understanding of the concept of urban metabolism is critical.

Integrated Urban Metabolism Analysis Tool (IUMAT) of dissemination and development of reliable urban planning and policy tools. To reach sustainable urban development, having a comprehensive understanding of the concept of urban. This network of heterogeneous flows in cities is called urban metabolism (UM). In the past Understanding Urban Metabolismâ€™a Tool for Urban Planning. Buy Understanding Urban Metabolism: A Tool for Urban Planning online at best price in India on Snapdeal. Read Understanding Urban Metabolism: A Tool for. To more fully understand a city, its resource flows can be compared Using this tool, New Orleans' urban planners can model the overall. metabolism studies for urban planning and design? Most studies of urban metabolism .. Kennedy et al. also highlighted the importance of understanding changes in .. the urban metabolism as a tool to guide sustainable design (Fig. 2 ). In: Chrysoulakis, N, de Castro, EA, Moors, E (eds) Understanding Urban Metabolism. A tool for Urban Planning. New York: Routledge, pp. Urban sustainability indicators are tools that allow city planners, city managers and policymakers value of understanding efficient urban metabolism in.

Cover Image. Understanding urban metabolism: a tool for urban planning / edited by Nektarios Chrysoulakis, Eduardo Anselmo de Castro and Eddy J. Moors.

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