

1. Record Nr.	UNINA9910790577003321
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Titolo	Sustainable urban metabolism / / Paulo Ferrao and John E. Fernandez
Pubbl/distr/stampa	Cambridge, Massachusetts : , : The MIT Press, , [2013] ©2013
ISBN	0-262-31696-X 0-262-31695-1
Descrizione fisica	xiii, 244 p. : ill
Disciplina	307.1/216
Soggetti	Sustainable urban development City planning Urban ecology (Sociology) Globalization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Urban metabolism: defining a field -- Industrial ecology: a metaphor for sustainable development -- Urban metabolism: resource consumption of cities -- Intellectual foundations and key insights -- Industrial ecology: a framework -- Industrial ecology: a framework of tools and practices -- Industrial ecology tools applied to urban resource management -- Sustainable urban systems -- Green urban policies and development -- Urban typologies: prospects and indicators -- Complexity and dynamics of urban systems -- Integrated approaches to sustainable urban metabolism -- Mapping and assessing urban metabolism -- Urban metabolism in practice: case studies from the developed world -- The challenge of urban metabolism in a developing context.
Sommario/riassunto	A unified framework for analyzing urban sustainability in terms of cities' inflows and outflows of matter and energy. Urbanization and globalization have shaped the last hundred years. These two dominant trends are mutually reinforcing: globalization links countries through the networked communications of urban hubs. The urban population now generates more than eighty percent of global GDP. Cities account for enormous flows of energy and materials--inflows of goods and

services and outflows of waste. Thus urban environmental management critically affects global sustainability. In this book, Paulo Ferrao and John Fernandez offer a metabolic perspective on urban sustainability, viewing the city as a metabolism, in terms of its exchanges of matter and energy. Their book provides a roadmap to the strategies and tools needed for a scientifically based framework for analyzing and promoting the sustainability of urban systems. Using the concept of urban metabolism as a unifying framework, Ferrao and Fernandez describe a systems-oriented approach that establishes useful linkages among environmental, economic, social, and technical infrastructure issues. These linkages lead to an integrated information-intensive platform that enables ecologically informed urban planning. After establishing the theoretical background and describing the diversity of contributing disciplines, the authors sample sustainability approaches and tools, offer an extended study of the urban metabolism of Lisbon, and outline the challenges and opportunities in approaching urban sustainability in both developed and developing countries.

2. Record Nr.

Titolo

UNINA9910785875503321

Design of analog circuits through symbolic analysis [[electronic resource] /] / editor, Mourad Fakhfakh ; co-editors, Esteban Tlelo-Cuautle, Francisco V. Fernandez

Pubbl/distr/stampa

[Saif Zone, Sharjah, UAE], : Bentham eBooks, [2012]

ISBN

1-60805-095-5

Descrizione fisica

1 online resource (491 p.)

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Disciplina

006.3

006.3/2

Soggetti

Electronic analog computers - Circuits
Symbolic circuit analysis

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

Note generali

Description based upon print version of record.

Nota di bibliografia

Includes bibliographical references.

Nota di contenuto

Cover; Title; EUL; Content; About the editors; Forward; Preface; List of contributors; Chapter 01; Chapter 02; Chapter 03; Chapter 04; Chapter 05; Chapter 06; Chapter 07; Chapter 08; Chapter 09; Chapter 10; Chapter 11; Chapter 12; Chapter 13; Chapter 14; Chapter 15; Chapter 16; Chapter 17

Sommario/riassunto

This e-book presents, details and exemplifies famous symbolic analysis techniques. Industrial R&D topics, recent developments and future trends in the field of symbolic analysis are also highlighted. This makes the e-book a good resource for circuit analysis. Thus, it is intended for students and researchers as well as for industry designers.