



Springer

1st
edition

2009, XIX, 607 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-1-4020-8495-9

\$ 399,99

Available

Discount group

Professional Books (2)

Product category

Monograph

Series

Future City

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Softcover

ISBN 978-94-024-1312-0

Life Sciences : Applied Ecology

Downton, Paul F., Sempahore, SA, Australia

Ecopolis

Architecture and Cities for a Changing Climate

- Perhaps the first book to deal with urban adaptation to rapid climate change on the basis of principles of ecologically sustainable development
- Its transdisciplinary approach links climate change, urban ecology, architecture and city planning with significant historical texts, scientific research and popular cultural expression
- Author's experience in the field
- With a Foreword by Ken Yeang

From 2008, for the first time in human history, half of the world's population now live in cities. Yet despite a wealth of literature on green architecture and planning, there is to date no single book which draws together theory from the full range of disciplines - from architecture, planning and ecology - which we must come to grips with if we are to design future cities which are genuinely sustainable. Paul Downton's *Ecopolis* takes a major step along this path. It highlights the urgent need to understand the role of cities as both agents of change and means of survival, at a time when climate change has finally grabbed world attention, and it provides a framework for designing cities that integrates knowledge - both academic and practical - from a range of relevant disciplines. Identifying key theorists, practitioners, places and philosophies, the book provides a solid theoretical context which introduces the concept of urban fractals, and goes on to present a series of design and planning tools for achieving Sustainable Human Ecological Development (SHED). Combining knowledge from diverse fields to present a synthesis of urban ecology, the book will provide a valuable resource for students, researchers and practitioners in architecture, construction, planning, geography and the traditional life sciences.

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ISBN 978-1-4020-8495-9 / BIC: RNC / SPRINGER NATURE: SCL19023

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