The Future of Cities and Regions
Simulation, Scenario and Visioning, Governance and Scale

Contents

Fields of interest
Landscape/Regional and Urban Planning; Sustainable Development; Human Geography

Target groups
Research

Product category
Monograph

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Mapping Environmental Issues in the City
Arts and Cartography Cross Perspectives

This book complements the growing body of literature exploring the relationships between arts and cartography. It is distinct from the previous ones by its main focus: The multiple ways of representing a database. In the context of the exponential increase of the volume of geospatial data available, addressing this issue becomes critical and has not yet received much attention. Furthermore, the content of the database – environmental issues in the city – gives a strong social and political texture to the project. The expected audience for this book are academic as well as students interested in the relationships between art and cartography, place and technology, power and representations. This book could serve as an inspiration for local groups and communities dealing with environmental injustice all over the world. Finally, at a local scale, this book could become a major reference for individuals, communities and institutions interested in environmental issues in the city of Montreal.

Features
► Complements the growing body of literature exploring the relationships between arts and cartography
► Focuses on multiple ways of representing a database
► The content of the database – environmental issues in the city - gives a strong social and political texture to the project

Contents
Mapping from Above: the Cartographic Perspective.- Mapping from the Ground: the Artistic/Humanistic Perspective.

Fields of interest
Geographical Information Systems/Cartography; Earth Sciences, general

Target groups
Research

Product category
Monograph

The Science of Cities and Regions
Lectures on Mathematical Model Design

A ‘science of cities and regions’ is critical for meeting future challenges. The world is urbanising: huge cities are being created and are continuing to grow rapidly. There are many planning and development issues arising in different manifestations in countries across the globe. These developments can, in principle, be simulated through mathematical computer models which provide tools for forecasting and testing future scenarios and plans. These models can represent the functioning of cities and regions, predicting the spatial demography and the economy, the main flows such as journey to work or to services, and the mechanisms of future evolution. In this book, the main principles involved in the design of this range of models are articulated, providing an account of the current state of the art as well as future research challenges. Alan Wilson has over forty years working with urban and regional models and has contributed important discoveries. He has distilled this experience into what serves as both an introduction and a review of the research frontier.

Contents

Fields of interest
Quantitative Geography; Applications of Mathematics; Computer Science, general

Target groups
Research

Product category
Brief