Springer
Customized Book List
Geography
European Metropolitan Housing Markets

This book provides a comprehensive analysis of housing theory and policy with a focus on metropolitan regions. The results are based on case studies of twelve European metropolitan regions, including expert panels organized in each. Using an approach from the field of industrial economics, the analysis is divided into the three related stages ‘structure’, ‘conduct’ and ‘performance.’ The essential idea is that the structure of a market, defined by market conditions, market growth, forms of competition and control, influences the economic behavior of both companies and households. The effects of this behavior can be observed in the development of prices; exchanged, constructed and maintained housing quantities; location patterns and choice of space. The contributions of this volume reveal significant differences in housing policies between European countries, while at the same time showing that policy effects are well in line with expectations based on traditional housing theory.

Contents
Regional Science; Landscape/Regional and Municipal Planning

Target groups
Scientists

Type of publication
Monograph

Due May 2007

Spatial Data on the Web
Modeling and Management

Spatial data is essential in a wide range of application domains today. While geographical applications remain the key target area, spatial properties are required in other contexts such as computer-aided design, robotics and image processing. Associated with these is the constantly growing number of distributed processing architectures, based on, for example, grid systems, sensor data networks, and personalized smart devices. Spatial Data on the Web links these two research streams, focusing on the modeling and management of spatial data in distributed systems. Belussi and his coeditors have structured the contributions from internationally renowned researchers into four parts. Part I presents models for representing semistructured, multi-resolution and multiscale data; Part II deals with the integration of spatial data sources; Part III describes approaches to spatial data protection; and, finally, Part IV reports innovative applications for mobile devices. The book offers researchers in academia [...] Contents
Database Management; Geoinformation/Cartography; Computer Applications in Geosciences; Information Storage and Retrieval; Computer Applications

Target groups
Researchers, libraries

Type of publication
Monograph

Due July 2007

Multilevel Synthesis
From the Group to the Individual

This book presents a historical panorama of the evolution of demographic thought from its eighteenth-century origins up to the present day, and uses it to demonstrate how the multilevel approach can resolve some of the contradictions that have become apparent and achieve a synthesis of the different approaches employed. Part one guides the reader from period analysis to multilevel analysis, examining longitudinal and event history analysis on the way. Part two is a detailed account of multilevel analysis, its methods, and the relevant mathematical models notably as regards the type of variables being used. Numerous examples, examined across successive sections, make the book clear and easy to follow. The theoretical and epistemological treatment of these problems, during which the foundations of sociology and demography are revisited, and the logical development that leads to the most recent approaches, are handled sufficiently rigorously to satisfy social science specialists while remaining [...] Features
Broadens the scope of demography with a multilevel approach Revisits the foundations of sociology and demography Discards the dualistic approach which pits society against the individual From period analysis to cohort, event history, and multilevel analysis

Contents

Fields of interest
Demography; Methodology of the Social Sciences; Epistemology; History of Science; Statistics for Social Science, Education, Public Policy, and Law

Target groups
Postgraduates, academics, students

Type of publication
Monograph

Due March 2007
**Advances in Geoinformatics**  
VIII Brazilian Symposium on Geoinformatics, GEOINFO 2006, Campos do Jordão (SP), Brazil, November 19-22, 2006

The GeoInfo series of scientific conferences is an annual forum for exploring research, development and innovative applications in geographic information science and related areas. This book provides a privileged view of what is currently happening in the field of geoinformatics, and a preview of what could be the hotter developments and research topics a few years from now. Additionally, it includes recent research results on spatial databases, spatial ontologies, computational geometry and visualization for geographic information systems, geostatistics and spatial statistics, spatial analysis, interoperability, and innovative applications of geotechnologies.

**Features**
- Presents a number of advancements in the field of Geoinformatics

**Contents**
- Computational Geometry and Visualization.
- Spatial Databases.
- Spatial Ontologies and Interoperability.
- Distributed GIS/GIS and the Internet.
- Geostatistics, Spatial Statistics and Spatial Analysis.

**Fields of interest**
- Geoinformation/Cartography; Computer Applications in Geosciences

**Target groups**
- Scientists and researchers in the field of GIS and computer sciences

**Type of publication**
Monograph

**Due August 2007**

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**The European Information Society**  
Leading the Way with Geo-information

This book presents a state-of-the-art overview of ongoing GI Science research, as presented at the 10th Conference of the Association of Geographic Information Laboratories for Europe (AGILE), held in Aalborg, Denmark. Included are 28 fully peer-reviewed papers covering basic GI Science research themes such as interoperability, geo-ontology, data representation, usability, and data quality; technological advancements (i.e., spatial web services and spatial data infrastructures); as well as applied research on environmental modeling and management, including mobile and collaborative applications.

**Contents**
- GI Education in Europe.
- Advances in Applied GI Research.
- Advanced GI Technologies.
- State-of-the-Art in GI Basic Research.

**Fields of interest**
- Geoinformation/Cartography; Computer Applications in Geosciences

**Target groups**
- Academic libraries with a collection of GIS, spatial information engineers

**Type of publication**
Monograph

**Due July 2007**

2007. XVII, 486 p. 190 illus. (Lecture Notes in Geoinformation and Cartography) Hardcover

**149.95 €**
ISBN 978-3-540-72384-4

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**Earthquake Early Warning Systems**

During the past few decades of the 20th and the first years of the present Century, economic losses and human casualties due to natural disasters increased exponentially on our planet, mainly because of the increased density of population and industry in high-hazard areas. Although the prediction of earthquakes is not practicable yet, the present technology allows a prompt identification of the onset of any dangerous seismic event before it hits an urban area. Hence early warning- and rapid disaster information systems are becoming important means for strengthening the resilience of our society against the negative consequences of extreme seismic events. Earthquake early warning can provide an alert within a few tens of seconds in advance. This small lead time may be used to minimize property damage and loss of lives in metropolitan areas and to aid emergency response. The book provides information on the major EEW systems in operation and on the state of the art of the different blocks forming an EEW system.

**Contents**
- 1 Real-time Earthquake Damage Mitigation Measures.
- 2 Can Earthquake Size be Controlled by the Initial Seconds of Rupture?.
- 3 The ElarmS Earthquake Early Warning Methodology and Application across California.
- 4 Real-time Estimation of Earthquake Magnitude for Seismic Early Warning.
- 5 A New Approach to Earthquake Early Warning.
- 6 Optimal, Real-time Earthquake Location for Early Warning.
- 7 The Virtual Seismologist (VS) Method: a Bayesian Approach to Earthquake Early Warning.
- 8 A Strong Motion Attenuation Relation for Early-warning Application in the Campania Region (Southern Italy).

**Fields of interest**
- Geophysics/Geodesy; Landscape/Regional and Municipal Planning; Geotechnical Engineering

**Target groups**
- Academics, scientists and researchers

**Type of publication**
Monograph

**Due June 2007**


**129.95 €**
ISBN 978-3-540-72240-3
Allocating Public and Private Resources across Generations

Riding the Age Waves - Volume 2

In rapidly industrializing countries, demographic changes continue to have significant effects on the well-being of individuals and families, and as aggregate human and financial capital. These effects may be analyzed in terms of inter-generational transfers of time, money, goods, and services. The chapters in this volume greatly develop our understanding of the nature and measurement of transfers, their motives and mechanisms, and their macro-level dimensions, especially in the context of demographic transitions.

The chapters include original empirical analyses of datasets from some twenty countries taking the reader beyond the American context in order to test the applicability of some of the theories developed on the basis of American data. They extend the traditional analysis of inter-generational transfers by examining different types of transfers, namely goods, money, assets, time, co-residence and visits. Furthermore, the chapters go beyond the study of traditional parent–child transfers [...]
Modelling Land-Use Change

Progress and Applications

Models of land-use change incorporate a vast amount of knowledge from a wide range of disciplines. Geography contributes to the understanding of land-use change whilst demography and economics help explain underlying trends. This book offers a cross-sectional overview of current research progress that allows the construction of successful land-use models. The contributions range from methodology and calibration to actual applications in studies of recent policy implementation and evaluation. The contributors originate from academic and applied research institutes around the world and thus offer an interesting mix of theory and practice in different case study contexts. In summary, land-use change simulation modelling is a relatively new and dynamic field of study and this book provides a full overview of the topic, a wide range of applications (both geographically and thematically), a mix of theory and practice, a synthesis of recent research progress, and educational material for students and teachers.

Features

Full cross-sectional overview of current research progress in land-use modelling, ranging from methodology and model calibration to applications of policy implementation and evaluation. Combination of academic and applied research contributions. International mix of theoretical and practical perspectives in different case study perspectives Educational material is provided on a CD that includes demonstration [...]

Contents


Fields of interest

Landscape/Regional and Municipal Planning; Computer Applications in Geosciences; Geoinformation/Cartography; Math. Applications in Geosciences; Quantitative Geography

Target groups

Researchers, practitioners, undergraduate and postgraduate students with interests in geography, environmental studies, economics, regional science, land management and planning

Type of publication

Contributed volume

Due August 2007

GIS for Health and the Environment

Development in the Asia-Pacific Region

The book is a compilation of methodological and application developments in spatial epidemiological approaches for environmental and public health studies in the Asia Pacific region. It is intended for practitioners in the field, including geospatial experts, practicing epidemiologists, medical doctors, environmentalists and public health physicians concerned with the impact of environmental exposures on the health of population.

Features

There has been a shortage of materials to document the developments of health GIS in the Asia Pacific region. The proposed book will fill the gap and also inform the direction of research paths and agenda in the subject matter.

Fields of interest

Computer Applications in Geosciences; Geoinformation/Cartography; Information Systems and Communication Service

Target groups

Practitioners in the field, including geospatial experts, practicing epidemiologists, medical doctors, environmentalists, toxicologists, statisticians, and public health physicians concerned with the impact of environmental exposures on the health of populations.

Type of publication

Monograph

Due July 2007

Geomatics Solutions for Disaster Management

Natural and anthropogenic disasters have caused a large number of victims and significant social and economic losses in the last few years. There is no doubt that the risk prevention and disaster management sector needs drastic measures and improvements in order to decrease damage and save lives of inhabitants. Effective utilization of satellite positioning, remote sensing, and GIS in disaster monitoring and management requires research and development in numerous areas: data collection, access and delivery, information extraction and analysis, management and their integration with other data sources (airborne and terrestrial imagery, GIS data, etc.), data standardization, organizational and legal aspects of sharing of remote sensing information. This book provides researchers and practitioners with a good overview of what is being developed in this topical area.

Features

This book provides researchers and practitioners with a good overview of what is being developed in the risk prevention and disaster management sector.

Fields of interest

Geoinformation/Cartography; Remote Sensing/Photogrammetry; Computer Applications in Geosciences; Information Systems and Communication Service

Target groups

Researchers and Practitioners in the fields of GIS and Computer Applications in Geosciences

Type of publication

Monograph

Due May 2007

2007, XVII, 444 p. 186 illus. (Lecture Notes in Geoinformation and Cartography) Hardcover

149,95 €

2007, IX, 310 p. 110 illus. (Lecture Notes in Geoinformation and Cartography) Hardcover

99,95 €
ISBN 978-3-540-71317-3


49,95 €
Visualization of Digital Terrain and Landscape Data

A Manual

This book approaches the visualization of digital terrain and landscape data by means of clear and practical examples. From data provision and the creation of revealing analyses to realistic depictions for presentation purposes, the reader is led through the world of digital 3D graphics. Combining deep knowledge of the scientific fundamentals and many years of experience in 3D visualization, the authors lead readers through a complex subject dynamically and shed light on previously murky virtual landscapes. Material on data evaluation and analysis, modeling, camera work and lighting, as well as the correct depiction of natural phenomena, atmospheric effects, and many tips for optimization make the book a valuable guide to a fascinating subject.

Features
Provides an overview and an understanding, with a strong practical tendency and detailed examples
Apart from the subject-related background, we will also consider the ways in which design and image processing are connected

Contents

Fields of interest
Geoinformation/Cartography; Landscape/Regional and Municipal Planning; Landscape Architecture; Computer-Aided Engineering (CAD, CAE) and Design; Computer Imaging, Vision, Pattern Recognition and Graphics

Target groups
Landscape architects, architects, civil engineers, geologists, geographers, cartographers, game developers, modellers

Type of publication
Reference work

Due April 2007

Societies and Cities in the Age of Instant Access

We are on the verge of what many are calling the "second information revolution," based on ubiquitous access to both computing and information. Handheld communication devices will become portable and even wearable remote control devices for both the social and physical worlds. At the same time, access to information will likely flourish, with an explosion in the volumes of data collected and distributed by these new devices - volumes of information about people delivered to more and more people, in new ways. The technologies of instant access have potential to transform dramatically our lives, cities, societies and economies much like the railroad, telephone, automobile and Internet changed our world in the previous ages. This book contains chapters by leading international experts who discuss issues surrounding the impact of instant access on cities, daily lives, transportation, privacy, social and economic networks, community and education.

Features
Up-to-date and current regarding wireless information technologies Multidisciplinary Relevant for scholars and practitioners

Contents
Section I. Introduction. - Section II. Cities and the Built Environment. - Section III. Activities in Space and Time. - Section IV. Transportation. - Section V. Mobile Information Services. - Section VI. Social and Economic Networks. - Section VII. Community.

Fields of interest
Geography; Information Systems Applications (incl.Internet); Human Geography; Urbanism

Target groups
Scholars in Geography, Urban Studies, Sociology, Communication, Information Science, Transportation Science, History of Technology, Education, Political Science

Type of publication
Contributed volume

Due March 2007
Geographic Uncertainty in Environmental Security

Features
Rare collection of scientists specializing in environmental security and protection
Unique NATO and NATO partner countries will not be duplicated
Researchers in GIS fuzzy logic, environmental science, rough sets and spatial databases

Contents

Fields of interest
Computer Applications in Geosciences; Geoinformation/Cartography; Environmental Computing/Environmental Modelling; Math. Appl. in Environmental Science; Monitoring/Environmental Analysis/Environmental Ecotoxicology

Target groups
GIS specialists, Fuzzy database researchers, environmental security analysts

Type of publication
Proceedings

Due September 2007


139.95 €
ISBN 978-1-4020-6436-4

Critical Infrastructure
Reliability and Vulnerability

This text brings together differing geographic perspectives in modeling and analysis in order to highlight infrastructure weaknesses or plan for their protection. International scholars, from a variety of disciplines – geography, regional science, planning, public policy, operations research, mathematics, computer science, engineering and transportation - contribute varying perspectives on this subject. This text is an important contribution offering synthesis and new methodological approaches. The purpose of this volume is to explore the potential consequences of critical infrastructure failure, stemming from both man-made (e.g., terrorist attacks) and natural disasters (earthquakes, hurricanes, etc.). The approaches employed are wide-ranging, including geographic, economic and social perspectives on critical infrastructure issues.

Fields of interest
Regional Science; Landscape/Regional and Municipal Planning; Quantitative Geography; R & D/Technology Policy

Target groups
Scientists in Geography, Regional Science, Planning, Public Policy, OR, Computer Science, Engineering and Transportation; practitioners responsible for critical infrastructure

Type of publication
Monograph

Due March 2007

2007. VIII, 311 p. (Advances in Spatial Science) Hardcover

84.95 €
ISBN 978-3-540-68055-0
**Transdisciplinary Challenges in Landscape Ecology and Restoration Ecology - An Anthology**

Capitalizing on forty years of intensive ecological studies, this anthology presents a collection of widely dispersed major publications on theoretical and practical Mediterranean, global environmental and landscape issues. Each chapter features a comprehensive study of ecological and landscape issues, synthesized in the introduction, and woven with autobiographical experiences. The concluding chapter calls for a transdisciplinary shift in all environmental scientific fields and particularly in landscape and restoration ecology, to cope with the complex, closely interwoven ecological, socio-economic, political and cultural crises facing human society during the present crucial transition from the industrial to the post-industrial, global information age. Updating and broadening the scope of the groundbreaking Springer book on Landscape Theory and Applications by the author and Lieberman (1994), this is a unique transdisciplinary attempt based on advanced systems complexity theories, which link [...] 

**Features**
Distinguished by its comprehensive transdisciplinary approach Essay on the need for transdisciplinary transformation of environmental and landscape sciences coping with ecological, socio-economic and cultural crises Complementary and updating the Springer text book on theory and application of landscape ecology by Naveh and Lieberman (1994) Bridging the gaps between natural sciences, social sciences and humanities

**Contents**

**Fields of interest**
Landscape Ecology; Landscape/Regional and Municipal Planning; Ecology; Biodiversity; Ecosystems; Environmental Management

**Target groups**
Landscape ecologists and restoration ecologists, landscape historians, anthropologists and everyone dealing in research and/or teaching with landscapes, students and graduate students, ecologists, geographers, regional and landscape planners, conservationists, landscape managers, foresters, environmentalists, scientists in natural science, social sciences and humanities

**Type of publication**
Monograph

**Due March 2007**

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**Applied Remote Sensing for Urban Planning, Governance and Sustainability**

Despite the promising and exciting possibilities presented by new and fast-developing remote sensing technologies applied to urban areas, there is still a gap perceived between the generally academic and research-focused spectrum of results offered by the "urban remote sensing" community and the application of these data and products by the local governmental bodies of urban cities and regions. While there is no end of interesting science questions that we can ask about cities, sometimes these questions don't match well with what the operational problems and concerns of a given city are. The authors present data from six urban regions from all over the world. They explain what the important questions are, and how one can use data and scientific skills to help answer them.

**Features**
High spatial and spectral resolution image data Includes various urban case studies Evaluation of the potentials of remote sensing of urban areas

**Contents**

**Fields of interest**
Geoinformation/Cartography; Landscape/Regional and Municipal Planning; Geology/Natural Processes; Environmental Computing/Environmental Modelling

**Target groups**
Scientists, researchers; institutes, libraries (landscape and urban planning, geography, remote sensing, geoinformation, environmental sciences); governmental bodies of cities and regions

**Type of publication**
Monograph

**Due July 2007**

2007. XXXII, 278 p. 34 illus. Hardcover

149,95 €
ISBN 978-3-540-25546-8

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Digital Terrain Modelling
Development and Applications in a Policy Support Environment

This publication is the first book on the development and application of digital terrain modelling for regional planning and policy support. It is a compilation of research results by international research groups at the European Commission’s Joint Research Centre, providing scientific support to the development and implementation of EU environmental policies. Applications include the pan-European River and Catchment Database, European Flood Alert System, European Digital Soil Database and alternative solar energy resources, all discussed in a GIS framework in the context of the INfrastructure for Spatial Information in Europe (INSPIRE). This practice-oriented book is recommended to practicing environmental modellers and GIS experts working on regional planning and policy support applications.

Features
First book on the development and application of digital terrain modelling for regional planning and policy support

Contents

Fields of interest
Geoinformation/Cartography; Computer Applications in Geosciences; Information Systems and Communication Service

Target groups
Practitioners and professionals in the fields of digital terrain modelling, GIS and environmental sciences

Type of publication
Monograph

Due July 2007


114.95 €
ISBN 978-1-4020-6001-4

Information Fusion and Geographic Information Systems
Proceedings of the Third International Workshop

Workshop Proceedings introduce research results received in the areas of information integration, development of GIS and GIS-applications for a wide spectrum of information systems varying considerably in purpose and scale. The new class of GIS – intelligent GIS – is considered, including principles of their building and programming technologies. Special attention is drawn to ontologies’ development and their use in GIS and GIS-applications.

Features
Introduces research results received in the areas of information integration, development of GIS and GIS-applications for a wide spectrum of information systems

Contents
Data, Information and Knowledge Harmonization, Integration and Fusion in GIS.- Information Assurance and Protection in GIS.- GIS as a Basis for Monitoring Systems.- Ontologies and Programming Technologies for GIS and GIS Applications.- Operations Research and TSMO for GIS Applications

Fields of interest
Geoinformation/Cartography; Environmental Computing/Environmental Modelling

Target groups
Scientists and researchers in the fields of geoinformation/cartography, information systems and environmental computing

Type of publication
Monograph

Due June 2007

2007. XIII, 335 p. 110 illus. (Lecture Notes in Geoinformation and Cartography) Hardcover

129.95 €
ISBN 978-3-540-37628-6

Genders in the Life Course
Demographic Issues

This book treats the topic of gender and demographic behaviour during the life course in a comprehensive fashion. It covers a lot of ground, from the age at first intercourse over union formation and dissolution, fertility, migration, ageing, to excess male mortality, comparing genders behaviour and its determinants. It reports new findings of empirical research, mostly based on data from a number of European countries, making a good use of the Family and Fertility surveys and other international data base. This book is of particular interest to demographers, social scientists, academic scholars and private/public-sector operators, particularly those who are interested in the roles of men and women, and the factors of possible asymmetries and disadvantages, with direct connections to the population policies.

Features
This unique book on relations between gender system and demographic behaviours, uses powerful data sets as Family and Fertility survey

Contents

Fields of interest
Demography; Sociology; Gender Studies; Family Relations; Social Sciences

Target groups
Demographers and Sociologists

Type of publication
Contributed volume

Due September 2007


114.95 €
ISBN 978-1-4020-6001-4
Employment Deconcentration in European Metropolitan Areas

Market Forces versus Planning Regulations

This book provides a cross-national comparative perspective on employment deconcentration within selected metropolitan areas in Europe. Whereas most debate over urban sprawl and deconcentration is oriented towards the North American context, this book aims at a better understanding of this phenomenon in the European context, emphasizing the location of economic activities rather than residential patterns. It provides insights on whether different governance attributes produce particular forms of deconcentration versus the influence of market attributes and local specificities, also commenting on quality of life impacts and possible governance and policy implications of the deconcentration process. Introduction of a comparative framework is followed by eight case study chapters, three representing northern Europe, three the southern Europe-Mediterranean region and two post-communist central Europe. Most chapters examine two metropolitan areas, usually a large and a smaller one. The comparison [...] Features

Adds a unique feature to the voluminous literature on urban sprawl, the focus on economic activities. Focus on European metropolitan areas (and on economic activities within European metropolitan areas) Unique comparative perspective on employment deconcentration that includes also transformed post-communist and Israeli metropolitan areas Contribution to the literature on urban outcomes of transformed welfare [...] Contents


Landscape/Regional and Municipal Planning; Economic Geography; Human Geography; Regional Science; Political Science

Target groups

Academics and graduate students in urban geography, urban studies, urban affairs, urban planning, and urban and environmental policy, urban and environmental planners, firm location consultants, and potentially a semi-popular audience interested in cities and in human geography

Type of publication

Contributed volume

Due June 2007

Human Longevity, Individual Life Duration, and the Growth of the Oldest-Old Population

Old-age survival has considerably improved in the second half of the twentieth century. Life expectancy in wealthy countries has increased, on average, from 65 years in 1950 to 76 years in 2005. The rise was more spectacular in some countries: the life expectancy for Japanese women rose from 62 years to 86 years during the same period. Driven by this longevity extension, the population aged 80 and over in those countries has grown fivefold from 8.5 million in 1950 to 44.5 million in 2005. Why has such a substantial extension of human lifespan occurred? How long can we live? In this book, these fundamental questions are explored by experts from such diverse fields as biology, medicine, epidemiology, demography, sociology, and mathematics: they report on recent cutting-edge studies about essential issues of human longevity such as evolution of lifespan of species, genetics of human longevity, reasons for the recent improvement in survival of the elderly, medical and behavioral causes of deaths among [...] Features

Living longer and healthier has been a goal of human beings for thousands of years, but we know little about it. Distinguished experts in the field of healthy aging/ longevity address strategically important issues of “living longer and healthier” Presents county-specific studies and cross-national comparisons with easy-to-read texts, based on longitudinal and cross-sectional data from North America, Europe, [...] Contents

From the contents Section 1: Theoretical and Comparative Biological Concepts. - Section 2: Empirical and Analytical Studies of Ageing and Oldest-Old Populations. - Section 3: Causes of Death and Biological Frailty. - Section 4: Sex, Gender and Social Determinants and Consequences of Mortality. - Section 5: Causes of the Trend in Mortality and Morbidity. - Index. Fields of interest

Demography; Aging; Geriatrics/Gerontology; Social Sciences

Target groups

Demographers, biologists, gerontologists, sociologists, public health researchers and policy makers

Type of publication

Contributed volume

Due September 2007


66.95 €
ISBN 978-1-4020-4847-0
Dynamic Population Models

Dynamic Population Models is the first book to comprehensively discuss and synthesize the emerging field of dynamic modeling, i.e. the analysis and application of population models that have changing vital rates. Incorporating the latest research, it includes thorough discussions of population growth and momentum under gradual fertility declines, the impact of changes in the timing of events on fertility measures, and the complex relationship between period and cohort measures. Recently developed models for the analysis of changing mortality are examined, and generalizations of Lotka's fixed rate stable population model are developed and applied. The book is well organized and clearly written so that it is accessible to those with only a minimal knowledge of calculus. It begins with a review of fixed rate population models, from the basic life table to multistate stable populations. The process of convergence to stability is described, and the regularities underlying change in the size and [...] Features

State-of-the-art presentation of mathematical (or formal) demography Detailed discussion of population momentum thorough treatment of timing effects on demographic behavior In-depth analyses of regularities in populations with changing rates Clear and complete explanations with a minimum of mathematical complexity

Contents


Fields of interest

Demography; Genetics and Population Dynamics; Methodology of the Social Sciences; Statistics for Social Science; Education, Public Policy, and Law

Target groups

Demographers, population statisticians, and applied social scientists

Type of publication

Monograph

Due March 2007

The Soils of Israel

Eleven chapters present a concise description of the soils of Israel, including their distribution, chemical, physical mineralogical characteristics and agricultural attributes. On the background of the various soil-forming factors such as climate, lithology and physiography the pathways of their formation is discussed. Based on the relationships between soils and soil-forming factors, the distribution of the different soil types is explained. An ample bibliography backs up this exposition, supplemented by numerous figures, tables, colour plates and maps. The description of the contemporaneous surface soils is supplemented by a review of the numerous paleosols with their paleogeographic significance.

Features

First comprehensive book on the soils of Israel since 1948

Contents


Fields of interest

Physical Geography; Soil Science & Conservation; Geology; Landscape Ecology; Sedimentology; Agriculture

Target groups

Libraries, institutes, scientists, researchers

Type of publication

Monograph

Due May 2007

2007, X, 306 p. 228 illus., 68 in color Hardcover

99,95 €

ISBN 978-3-540-71731-7

The Post-Socialist City

Urban Form and Space Transformations in Central and Eastern Europe after Socialism

In the large body of literature produced during the last fifteen years on the transformation of Eastern European societies after the fall of communism, studies investigating changes in urban form and structure have been quite rare. Yet a profound reorganization of the manner in which urban space is appropriated has taken place, impacting the life of over 200 million urban residents in the region. The patterns of spatial organization, which have been established during this fairly limited but critical time frame, are likely to set the direction of future urban development in CEE cities for a long time. This book focuses on the spatial transformations in the most dynamically evolving urban areas of post-socialist Central and Eastern Europe, linking the restructuring of the built environment with the underlying processes and forces of socio-economic reforms. We hope that the detailed accounts of the spatial transformations in a key moment of urban history in the region will enhance our understanding of [...] Features

Focus on the evolution of urban form in CEE cities after socialism, an under-explored subject Wide geographic coverage

Contents


Fields of interest

Landscape/Regional and Municipal Planning; Human Geography; Urbanism; Regional and Cultural Studies

Target groups

Geographers, policy-makers, urban planners and architects

Type of publication

Contributed volume

Due August 2007


134,95 €

Ages, Generations and the Social Contract

The Demographic Challenges facing the Welfare State

Our societies are ageing. The Family is changing. Labour force behaviour is evolving. How is the organisation of family and collective solidarity adapting in this context of longer life spans, low fertility, and work that is simultaneously scarce and abundant? The welfare states are currently facing three main challenges: ensure satisfactory living conditions for the elderly without increasing the cost burden on the active population, reduce social inequality, and maintain equity between successive generations. In this book, researchers from different countries compare their experiences and offer contrasting views on the future of social protection. They consider the theoretical aspects of the intergenerational debate, relations between generations within the family, the living standards of elderly people, and the question of social time.

Features
For the first time in history it is common that at least three and sometimes four generations are living at the same time; this book examines the new interactions between family change, labour force participation and population ageing. Comparative approach for developed countries in a holistic way. Life cycle approach within each generation taking into account the dynamics of an intergenerational context. Focus [..]

Contents

Fields of interest
Demography; Aging; Social Sciences; Social Policy; Family Relations; Population Economics

Target groups
Demographers, Economists and Sociologists

Type of publication
Contributed volume

Due September 2007

2007. Approx. 300 p. Hardcover

114,95 €
ISBN 978-1-4020-5972-8

GPS: Theory, Algorithms and Applications

This reference and handbook describes theory, algorithms and applications of the Global Positioning System (GPS/Galileo). It is primarily based on source-code descriptions of the KSGsoft program developed by the author at the GFZ in Potsdam. The theory and algorithms are extended and verified for a new development of a multiple functional GPS/Galileo software. Besides the concepts such as the unified GPS data processing method and the numerical solution of the variation equations, as well as the general ambiguity search criteria reported in the first edition, there are several highlights reported. Such as the equivalent principle and its applications, the theory of independent parameterisation, the diagonalisation algorithm, etc. Mathematically rigorous, the book begins with the basics of coordinate and time systems and satellite orbits, as well as GPS observables, and deals with topics such as physical influences, observation equations and their parameterisation, adjustment and filtering, [..]

Features
An excellent reference and handbook of GPS/Galileo research and applications. Includes theory, algorithms and applications of the GPS, GLONASS and Galileo systems. Combines a theoretical basis with practical and software experience. Clearly organized. Standard software is explained.

Contents

Fields of interest
Geophysics/Geodesy; Geoinformation/Cartography; Landscape/Regional and Municipal Planning; Extraterrestrial Physics, Space Sciences; Automotive and Aerospace Engineering; Electronic and Computer Engineering

Target groups
Graduate students, researchers, practitioners

Type of publication
Monograph

Due August 2007

2007. XXI, 340 p. 59 illus. Hardcover

99,95 €
ISBN 978-3-540-72714-9
Over the past decade, the transport industry has become an increasingly popular scapegoat for polluting the environment with emissions and noise. Therefore, additional transport infrastructure investments, especially in road transport, are becoming more and more contentious. Conversely, the advocates of free trade stress the importance of transport to enhance economic growth and subsequently the standards of living. Thus, political decision makers and business people alike are facing the challenge of reconciling these conflicting ideas. Though being one of the most prominent topics in public discussion, hard facts are still rare. In order to analyze the question from a different perspective, this book sets out to combine different approaches from economics as well as business administration to stimulate scientific discourse and to support decision-makers in their efforts to ameliorate the situation. The first part of this book contributes to the empirics of the relationship between transport and [...] 

Features
New findings about relationship between transport, trade and economic growth. It helps politicians, analysts and companies to clarify their interests regarding transport. It comprises new information about preferences of industrial enterprises and trading firms regarding relevance of costs and quality of transport.

Contents

Fields of interest
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