

G. Gartner, F. Ortig, Vienna University of Technology, Austria (Eds)

## Advances in Location-Based Services

8th International Symposium on Location-Based Services, Vienna 2011

This book gives a general picture of research-driven activities related to location and map-based services. The interdisciplinary character of the topic leads to a variety of contributions with backgrounds from academia to business and from computer science to geodesy. While cartography is aiming at efficient communication of spatial information, the development and availability of technologies like mobile networking, mobile devices or short-range sensors lead to interesting new possibilities of achieving this aim. By trying to make use of the available technologies, a variety of related disciplines looks specifically at user-centered and context-aware system development, especially in wayfinding and navigation systems.

### Features

► Interdisciplinary Approach ► Gives a general picture of research-driven activities related to location and map-based services ► Successor of LBS1 and LBS2 it completes the series on TeleCartography

### Contents

Visualization and Context Awareness.- Modeling and Computing.- Mobile Sensors.- General Aspects of LBS.

### Fields of interests

Geographical Information Systems/Cartography; Earth Sciences, general

### Target groups

Research

### Product category

Monograph

### Available

2012. 350 p. (Lecture Notes in Geoinformation and Cartography) Hardcover

► \$179.00

ISBN 978-3-642-24197-0



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B. Pradhan, M. Buchroithner, University of Technology, Dresden, Germany (Eds)

## Terrigenous Mass Movements

Detection, Modelling, Early Warning and Mitigation Using Geoinformation Technology

Terrestrial mass movements (i.e. cliff collapses, soil creeps, mudflows, landslides etc.) are severe forms of natural disasters mostly occurring in mountainous terrain, which is subjected to specific geological, geomorphological and climatological conditions, as well as to human activities.

### Features

► Recent developments and current issues in GI Technology and mass movements ► Fundamental treatment of GI Technology including data modeling, topography, geology, geomorphology, remote sensing, artificial neural networks, binomial regression, fuzzy logic, spatial statistics and analysis ► Written by experts in this field

### Contents

Introduction.- Terrestrial Mass Movements.- GI Technology and mass movements: Overview and current research trends.- Morphological attributes and geomorphometry in mass movement.- Remote Sensing tools and technology for studying mass movement inventory.- Modeling approaches using geostatistics and spatial analysis.- Fuzzy Logic and Neural network modeling in hazard and risk assessment.- Geotechnical and Safety factor analysis in mass movement studies.- Mass movements monitoring and characterization using high-resolution DEMs derived by LIDAR and other techniques.- Risk assessment and strategy.- Landslide mapping: Cartography and Visualization.- Landslide studies in snow and glacial areas. .

### Fields of interests

Geographical Information Systems/Cartography; Geophysics/Geodesy; Physical Geography

### Target groups

Research

### Product category

Monograph

### Due February 2012

2012. IV, 382 p. 154 illus. Hardcover

► \$179.00

ISBN 978-3-642-25494-9



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B. Warf, University of Kansas, Lawrence, KS, USA (Ed)

## Encounters and Engagements between Economic and Cultural Geography

### Features

► First book-length examination of how cultural and economic geography have become interpenetrated ► Adopts a variety of conceptual and empirical perspectives on the encounters between economic and cultural geographers ► Contains empirical analysis utilizing both quantitative and qualitative approaches

### Contents

Introduction: Fusing Economic and Cultural Geography: Barney Warf.- Chapter 1 A Short Cultural History of Anglo-American Economic Geography: Bodies, Books, Machines, and Places: Trevor Barnes.- Chapter 2 The Cultural Turn in Geography: A New Link in the Commodity Chain: Elaine Hartwick.- Chapter 3 Consumption Geographies: Turns or Intersections?: Juliana Mansvelt.- Chapter Gender, Commodity Chains and Everyday Life: Deborah Leslie.- Chapter 5 Economic Rationality, Ethnic Identity, and the Geographies of Consumption: Lucia Lo and Lu Wang.- Chapter 6 Trust and Distrust: Culture Finding its Way into Economics or the Other Way Round?: Geir Oderud.- Chapter 7 Building the Beloved Community through Techno Music Production in Detroit: Deborah Che.- Chapter 8 Exploring the Role of Networks in the Creative Economy of Northeast England: Economic and Cultural Dynamics: Roberta Comunian.- Chapter 9 The Relevance of Scale Economies in Economic and Social Relationships in the New Economic Geography: Luca Spinesi.- Chapter 10 Consuming the Spectacle: Tourism and Communication Technologies in Santiago de Compostela: Carlos Ferrás Sexto and Yolanda García Vázquez.

### Fields of interests

Economic Geography; Human Geography

### Target groups

Research

### Product category

Contributed volume

### Due March 2012

2012. XXVI, 176 p. 7 illus., 4 in color. (GeoJournal Library, Volume 104) Hardcover

► \$139.00

ISBN 978-94-007-2974-2



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P. K. Kitanidis, P. L. McCarty, Stanford University, CA, USA (Eds)

## Delivery and Mixing in the Subsurface

### Processes and Design Principles for In Situ Remediation

This volume is meant to provide the practitioner with information on the natural mixing processes occurring in aquifers as well as to describe basic strategies that can be implemented to enhance mixing in particular cases. For example, when it comes to mixing miscible liquids, one can speed up mixing in the formation by manipulating the flow such as through the use of recirculation wells.

#### Features

► Emphasis on what the practitioner needs to know about delivery and mixing in the subsurface ► Describes the principles of chemical delivery and mixing systems and their design and implementation for effective in situ remediation ► Numerous case studies are provided to give readers real examples of the topics at hand

#### Contents

Preface.- About the Editors.- External Reviewers.- Introduction.- Transport and Mixing.- Hydrogeochemical Models.- Travel-Time Based Reactive Transport Modeling for in situ Subsurface Reactor.- Recirculation Systems.- Permeable Barrier Walls.- In situ Sparging for Delivery of Gases in the Subsurface.- Intrinsic Remediation in Natural-Gradient Systems.- Source Remediation Challenges.- Appendix A.- Appendix B.- Appendix C.- Index.

#### Fields of interests

Environmental Management; Environmental Engineering/Biotechnology; Environmental Chemistry

#### Target groups

Research

#### Product category

Contributed volume

Due January 2012

2012. XXVIII, 346 p. 70 illus., 40 in color. (SERDP ESTCP Environmental Remediation Technology, Volume 4) Hardcover

► \$89.95

ISBN 978-1-4614-2238-9



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## Reviews of Environmental Contamination and Toxicology

Continuation of Residue Reviews

C. Gerba, O. Hutzinger, J. B. Knaak, R. S. Tjeerdema, P. d. Voogt, J. Giesy, J. T. Stevens

Editor-in-chief: D. M. Whitacre

Series editors: M. F. Cavieres, G. Ware

### Volume 216

R. S. Tjeerdema, University of California Davis, CA, USA (Ed)

## Aquatic Life Water Quality Criteria for Selected Pesticides

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

#### Features

► Overview of UC Davis method of aquatic life water quality criteria ► Organophosphorus insecticides ► Pyrethroid insecticides

#### Contents

Special Foreword.- Foreword.- Preface.- Aquatic Life Water Quality Criteria Derived via the UC Davis Method I. Organophosphate Insecticides.- Aquatic Life Water Quality Criteria Derived via the UC Davis Method II. Pyrethroid Insecticides.- Aquatic Life Water Quality Criteria Derived via the UC Davis Method III. Diuron.- Index.

#### Fields of interests

Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Monitoring/Environmental Analysis; Ecotoxicology

#### Target groups

Research

#### Product category

Contributed volume

Due February 2012

2012. VII, 154 p. 8 illus. With online files/update. Hardcover

► \$129.00

ISBN 978-1-4614-2259-4



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## Reviews of Environmental Contamination and Toxicology

Continuation of Residue Reviews

C. Gerba, O. Hutzinger, J. B. Knaak, R. S. Tjeerdema, P. d. Voogt, J. Giesy, J. T. Stevens

Editor-in-chief: D. M. Whitacre

Series editors: M. F. Cavieres; G. Ware

### Volume 217

D. M. Whitacre, Summerfield, NC, USA (Ed)

## Reviews of Environmental Contamination and Toxicology Volume 217

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

#### Features

► Provides detailed reviews worldwide to key scientists and science or policy administrators ► Supplies scientific review articles on all aspects of environmental contamination and associated toxicological consequences ► Facilitates the task of accessing and interpreting cogent scientific data within closely related research fields

#### Contents

Foreword.- Preface.- Chiral Pesticides: Identification, Description, and Environmental Implications.- Strategies for Chromium Bioremediation of Tannery Effluent.- Index.

#### Fields of interests

Ecotoxicology; Environmental Management; Waste Management/Waste Technology

#### Target groups

Research

#### Product category

Contributed volume

Due March 2012

2012. VIII, 142 p. 9 illus., 1 in color. Hardcover

► \$129.00

ISBN 978-1-4614-2328-7



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**B. M. Riegl**, Nova Southeastern University, Dania Beach, FL, USA; **S. J. Purkis**, Nova Southeastern University, Dania Beach, FL, USA (Eds)

## Coral Reefs of the Gulf

### Adaptation to Climatic Extremes

#### Contents

1. Coral reefs of the Gulf: Adaptation to climatic extremes in the world's hottest sea Bernhard Riegl, Sam Purkis.- 2. Environmental constraints for reef building in the Gulf Bernhard Riegl and Sam Purkis.- 3. Geomorphology and Reef Building in the SE Gulf Sam Purkis and Bernhard Riegl.- 4. Environmental Setting and Temporal Trends in South-eastern Gulf Coral Communities Kristi Foster, Greg Foster, Ashraf S. Al Cibahy, Suaad Al Harthi, Sam Purkis, Bernhard Riegl.- 5. Dynamics of Gulf coral communities: observations and models from the world's hottest coral sea Bernhard Riegl and Sam Purkis.- 6. Coral bleaching and mortality thresholds in the SE Gulf: highest in the world Bernhard Riegl, Sam Purkis, Ashraf Al-Cibahy, Suaad Al-Harthi, Edwin Grandcourt, Khalifa Al-Sulaiti, James Baldwin, Alaa Abdel-Moati.- 7. Diseases, harmful algae blooms (HABs) and their effects on Gulf coral populations and communities Bernhard Riegl, Andy W. Bruckner, Kaveh Samimi-Namin, Sam Purkis.- 8. Reef Fish and Fisheries in the Gulf Edwin Grandcourt.- 9. Extreme physical factors and the structure of Gulf fish and reef communities David A. Feary, John A. Burt, Georgenes H. Cavalcante, Andrew G. Bauman.- 10. Man-made structures as artificial reefs in the Gulf John A. Burt, Aaron Bartholomew, David A. Feary.- 11. The hermatypic scleractinian (hard) coral fauna of the Gulf Bernhard Riegl, Francesca Benzoni, Kaveh Samimi-Namin, Charles Sheppard.- 12. The octocoral fauna of the Gulf Kaveh Samimi-Namin, Leen van Ofwegen. [...]

#### Fields of interests

Marine & Freshwater Sciences; Freshwater & Marine Ecology; Climate Change

#### Target groups

Research

#### Product category

Contributed volume

**M. Tennberg**, University of Lapland, Rovaniemi, Finland (Ed)

## Governing the Uncertain

### Adaptation and Climate in Russia and Finland

The book provides a detailed analysis of the development of adaptive governance in Russia and Finland. It presents a case study from the Sakha Republic in Russia that focuses on community's participation in the process of governing of the flood events in the Tatta River area. Local adaptive practices are analyzed in relation to federal and regional responses that may mandate, encourage or collide with community's agency.

#### Features

► Details a novel approach to adaptation studies in climate change research ► Includes welcome case studies from an under-researched region of the world ► Appeals to those interested in wider regional issues in the Arctic as well as the indigenous peoples most affected by local environmental change ► Discusses the relations between development projects and environmental changes

#### Contents

Preface.- PART I: Starting Points.- 1. Introduction.- 2. Adaptation as a Governance Practice.- PART II: Russian Adaptation Governance.- 3. Adaptation in Russian Climate Governance.- 4. The Big Water of a Small River: Flood Experiences and a Community Agenda For Change.- PART III: Finnish Adaptation Governance.- 5. Adaptation in Finnish Climate Governance.- 6. Adaptation of Sámi Reindeer Herding: EU Regulation and Climate Change.- PART IV: Towards A Practice Theory of Adaptation Governance.- 7. Responsibilisation For Adaptation.- Index.

#### Fields of interests

Climate Change; Political Science, general; Anthropology

#### Target groups

Research

#### Product category

Contributed volume

**B. Thompson**, Food and Agriculture Organization of the United Nations, Rome, Italy; **M. J. Cohen**, Oxfam America, Washington, DC, USA (Eds)

## The Impact of Climate Change and Bioenergy on Nutrition

Climate changes will affect food production in a number of ways. Crop yields, aquatic populations and forest productivity will decline, invasive insect and plant species will proliferate and desertification, soil salinization and water stress will increase. Each of these impacts will decrease food and nutrition security, primarily by reducing access to and availability of food, and also by increasing the risk of infectious disease. Although increased biofuel demand has the potential to increase incomes among producers, it can also negatively affect food and nutrition security. Land used for cultivating food crops may be diverted to biofuel production, creating food shortages and raising prices.

#### Features

► The only book that looks at the effects of climate change, bioenergy, and the economic crises of 2007-2010 on food and nutrition security. ► The only book to provide current statistics on nutrition, climate change projections, biofuel scenarios and food security together in a single source. ► Provides explicit examples of adaptation and mitigation strategies for climate change and biofuel production within the agricultural sector

#### Contents

1. Summary.- 2. Introduction.- 3. World Food Insecurity and Malnutrition: Scope, Trends, Causes and Consequences.- 4. Climate Change, Food Security and Nutrition.- 5. Nutrition and Bioenergy.- 6. Policies and Programmes for Improving Nutrition.- 7. Conclusions and Recommendations.- 8. References.- 9. Appendices.

#### Fields of interests

Climate Change; Nutrition; Agriculture

#### Target groups

Graduate

#### Product category

Contributed volume

Due March 2012

2012. IX, 395 p. 247 illus., 199 in color. (Coral Reefs of the World, Volume 3) Hardcover

► \$129.00

ISBN 978-94-007-3007-6



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Due March 2012

2012. CLVII, 18 p. 19 illus., 18 in color. Hardcover

► \$129.00

ISBN 978-94-007-3842-3



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Due February 2012

2012. VI, 118 p. 16 illus., 13 in color. Hardcover

► approx. \$139.00

ISBN 978-94-007-0109-0



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Z.-Y. Wang, Tsinghua University, China; J. H. Lee, The Hong Kong University of Science & Technology, China; C. S. Melching, Marquette University, Milwaukee, WI, USA

## River Dynamics and Integrated River Management

„River Dynamics and Integrated River Management” provides comprehensive information on rivers for integrated management, including natural processes, stresses resulting from human activities, and restoration of various parts of the river basin, including the watershed, mountain streams, alluvial rivers, estuaries, and natural and man-made lakes. Essential concepts, traditional and modern, such as river patterns, step-pool systems, vegetation-erosion charts, habitat diversity, and flushing times of bays, are clearly defined physically and explained with figures and pictures.

### Features

► Covers vegetation-erosion dynamics ► Details the artificial step-pool system for debris flow control and stream restoration ► Discusses stream ecology assessment and restoration strategies ► Provides a broad understanding of the fluvial processes of hyperconcentrated rivers

### Contents

Basic concepts and management issues of rivers.- Vegetation-Erosion Dynamics.- Debris flows and landslides.- Mountain streams and incised channels.- Sediment movement and fluvial processes.- Flood defence and water and sediment management of alluvial rivers with particular reference to the Yellow River.- Management of impounded rivers with the Three Gorges Project as a case study.- Deltaic processes and estuary management.- River ecology and stream restoration.- Environment and water quality.- Integrated river management.

### Fields of interests

Environmental Management; Nature Conservation; Geoecology/Natural Processes

### Target groups

Research

### Product category

Monograph

**Due February 2012**

Jointly published with Tsinghua University Press

Distribution rights in China: Tsinghua University Press

1st edition 2012. 600 p. 500 illus., 230 in color.

Hardcover

► \$229.00

ISBN 978-3-642-25651-6



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J. Wilcox, Stanford University, CA, USA

## Carbon Capture

This book approaches the energy science sub-field carbon capture with an interdisciplinary discussion based upon fundamental chemical concepts ranging from thermodynamics, combustion, kinetics, mass transfer, material properties, and the relationship between the chemistry and process of carbon capture technologies. Energy science itself is a broad field that spans many disciplines -- policy, mathematics, physical chemistry, chemical engineering, geology, materials science and mineralogy -- and the author has selected the material, as well as end-of-chapter problems and policy discussions, that provide the necessary tools to interested students.

### Features

► First authored book on the fundamental aspects of carbon capture ► First textbook on carbon capture ► Covers a diverse range of issues, such as thermodynamics, kinetics, mass transfer, and material properties

### Contents

Power Systems (PCC, IGCC, NGCC, Oxycombustion).- Capture Systems (Postcombustion, precombustion, direct air capture).- CO<sub>2</sub> Chemistry (carbonate vs. carbamate); thermodynamics; kinetics.- Mass Transfer (gas and liquid diffusion).- Material Science - solvent properties; packing materials (absorption) - sorbent properties (MOFs, Resins, activated carbon; adsorption).- Process Design (absorption towers; adsorption systems - packed-bed vs fluidized-bed reactors) - catalytic membranes - primarily for postcombustion.- Precombustion capture methods - membranes (polymer and dense); zeolites.

### Fields of interests

Environmental Chemistry; Energy Technology; Industrial Chemistry/Chemical Engineering

### Target groups

Research

### Product category

Graduate/Advanced undergraduate textbook

**Due February 2012**

2012. I, 247 p. 115 illus., 15 in color. Hardcover

► approx. \$69.00

ISBN 978-1-4614-2214-3



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