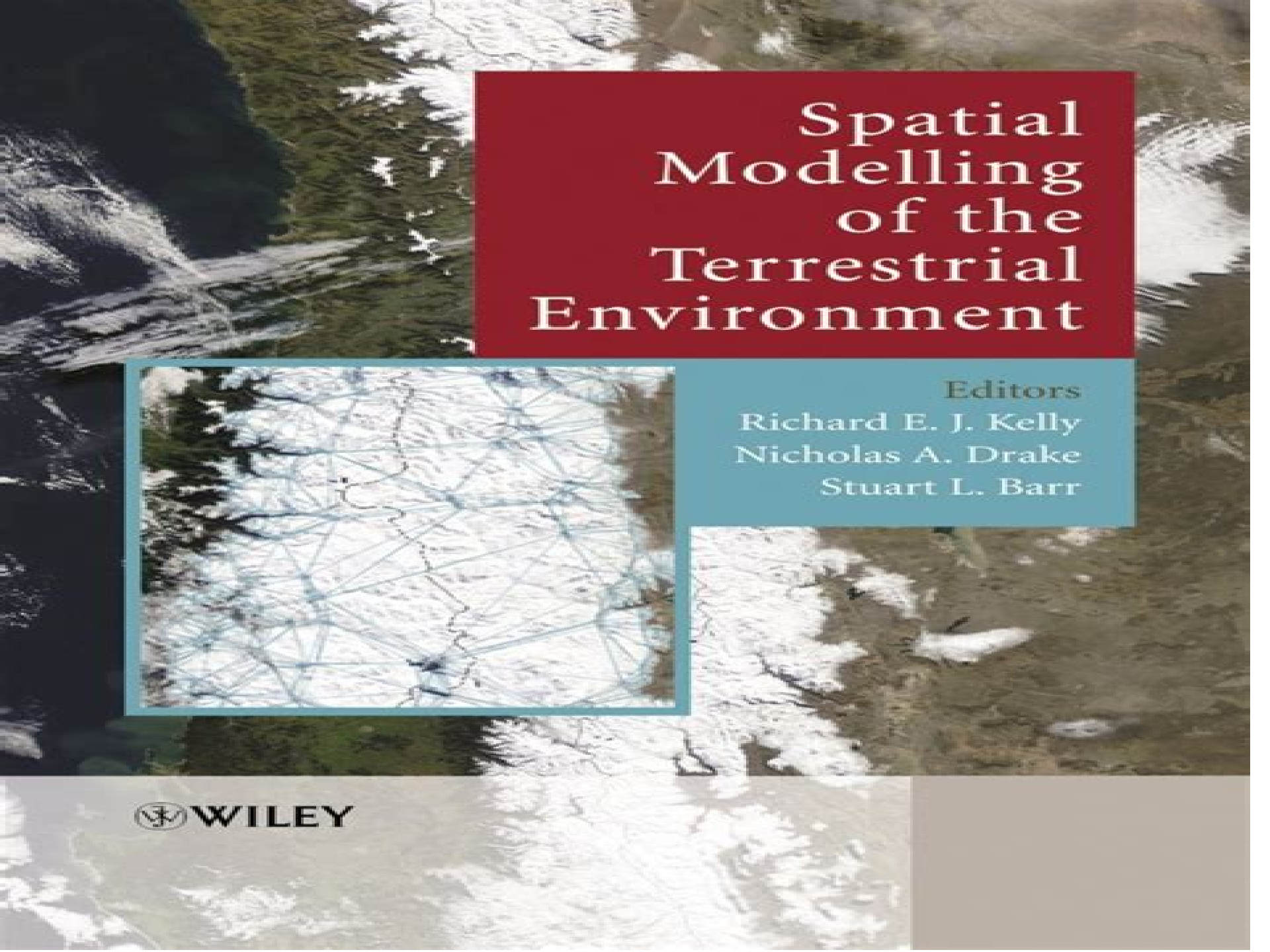




Spatial Modelling of the Terrestrial Environment

Editors

Richard E. J. Kelly

Nicholas A. Drake

Stuart L. Barr



 WILEY

Spatial Modelling Of The Terrestrial Environment

Paul Mather



Spatial Modelling Of The Terrestrial Environment:

Spatial Modelling of the Terrestrial Environment Richard E.J. Kelly,Nicholas A. Drake,Stuart L. Barr,2004-10-22

Understanding and predicting the behaviour of natural and human environmental systems is crucial for the effective management of the Earth s limited resources Recently great advances have been made through spatial modelling This book provides a snapshot of the latest research in modelling technologies and methodologies within five environmental fields the cryosphere hydrology geomorphology vegetation interfaces and urban environments Spatial Modelling of the Terrestrial Environment deals with the use of remote sensing numerical models and GIS in addressing important natural and human environmental sciences issues focusing on the theory and application of modelling remotely sensed data within the context of environmental processes Extensive case material exemplifies the latest research and modelling paradigms presented in the book

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Environmental Modelling John Wainwright,Mark Mulligan,2013-01-22 Simulation models are an established method used to investigate processes and solve practical problems in a wide variety of disciplines Central to the concept of this second edition is the idea that environmental systems are complex open systems The authors present the diversity of approaches to dealing with environmental complexity and then encourage readers to make comparisons between these approaches and between different disciplines Environmental Modelling Finding Simplicity in

Complexity 2nd edition is divided into four main sections An overview of methods and approaches to modelling State of the art for modelling environmental processes Tools used and models for management Current and future developments The second edition evolves from the first by providing additional emphasis and material for those students wishing to specialize in environmental modelling This edition Focuses on simplifying complex environmental systems Reviews current software tools and techniques for modelling Gives practical examples from a wide variety of disciplines e g climatology ecology hydrology geomorphology and engineering Has an associated website containing colour images links to WWW resources and chapter support pages including data sets relating to case studies exercises and model animations This book is suitable for final year undergraduates and postgraduates in environmental modelling environmental science civil engineering and biology who will already be familiar with the subject and are moving on to specialize in the field It is also designed to appeal to professionals interested in the environmental sciences including environmental consultants government employees civil engineers geographers ecologists meteorologists and geochemists GeoDynamics Peter Atkinson, Giles M. Foody, Steven E.

Darby, Fulong Wu, 2004-12-16 While remote sensing gives a surface depiction of the world its recent convergence with GIS enables richer depictions that can be used to simulate physical processes identify trends and make more accurate predictions GeoDynamics is based on specialized lectures from an international field of experts addressing remote sensing spatially

Genesis Solar Energy Project, Application for Certification, Riverside County, 2010 *TERRA- 1: Understanding The Terrestrial Environment* Paul Mather, 2003-09-02 This text aims to offer information on research approaches to assessing global environment changes It includes suggestions for the exchange of ideas between those studying land surface and remote sensing specialists and advocates synthesizing the findings of different disciplines Modelling Land-Use Change Eric Koomen, John Stillwell, Aldrik Bakema, Henk J. Scholten, 2007-08-08 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

Integrated Modelling of Ecosystem Services and Land-Use Change Youjia Liang, Lijun Liu, Jiejun Huang, 2019-10-17 This book presents essential case studies on the integrated modelling of ecosystem services and land use change in the field of landscape ecology The case studies were mainly conducted in the Zhangye oasis of the Hexi corridor and the upper

reaches of the Heihe river basin including Loess plateau for wind power and the inland waterways of the Yangtze River for the regulation of extreme events The book puts forward an integrated modelling method including human activities natural processes land use change and ecosystem management and explores multiple scenarios based on the interests of local managers and their implications for ecosystem services As the book demonstrates the integrated modelling method for ecosystem services and land use change can serve as a valuable tool for gauging the impact of various development scenarios in this study area and in other regions with similar characteristics In addition numerous charts and diagrams are included in each chapter facilitating the simulation and assessment of specific land use change impacts on ecosystem services in various study areas

Handbook of Environmental and Ecological Modeling Sven E. Jorgensen, 2017-11-22 With descriptions of hundreds of the most important environmental and ecological models this handbook is a unique and practical reference source The Handbook of Environmental and Ecological Modeling is ideal for those working in environmental modeling including regulators and managers who wish to understand the models used to make assessments Overviews of more than 360 models are easily accessed in this handbook allowing readers to quickly locate information they need about models available in a given ecosystem The material in the Handbook of Environmental and Ecological Modeling is logically arranged according to ecosystem Each of the sixteen chapters of the handbook covers a particular ecosystem and includes not only the descriptions of the models but also an overview of the state of the art in modeling for that particular ecosystem A summary of the spectrum of available models is also provided in each chapter The extensive table of contents and the easy to use index put materials immediately at your fingertips

Terrestrial Ecosystems in Changing Environments Herman Henry Shugart, 1998-03-26 A unique review of the problem of predicting the response of ecosystems to changed conditions

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