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KEY=MODEL - SEMAJ BAKER

Filter Design Solutions for RF systems MDPI This Special Issue focuses on the state-of-the-art results from the definition and design of filters for low- and high-frequency applications and systems. Different technologies and solutions are commonly adopted for filter definition, from electrical to electromechanical and mechanical solutions, from passive to active devices, and from hybrid to integrated designs. Aspects related to both theoretical and experimental research in filter design, CAD modeling and novel technologies and applications, as well as filter fabrication, characterization and testing, are covered. The proposed research articles deal with different topics as follows: Modeling, design and simulation of filters; Processes and fabrication technologies for filters; Automated characterization and test of filters; Voltage and current mode filters; Integrated and discrete filters; Passive and active filters; Variable filters, characterization and tunability. **Wired/Wireless Internet Communications 15th IFIP WG 6.2 International Conference, WWIC 2017, St. Petersburg, Russia, June 21-23, 2017, Proceedings Springer** This book constitutes the proceedings of the 15th IFIP International Conference on Wired/Wireless Internet Communications, WWIC 2017, held in St. Petersburg, Russia, in June 2017. The 27 papers presented in this volume were carefully reviewed and selected from 76 submissions. They were organized in topical sections named: network analysis and dimensioning; 5G communications; network design and planning; network protocols; information technology; and circuit design. **Real-Time Modelling and Processing for Communication Systems Applications and Practices Springer** This book presents cutting-edge work on real-time modelling and processing, a highly active research field in both the research and industrial domains. Going beyond conventional real-time systems, major efforts are required to develop accurate and computational efficient real-time modelling algorithms and design automation tools that reflect the technological advances in high-speed and ultra-low-power transceiver communication architectures based on nanoscale devices. The book addresses basic and more advanced topics, such as I/O buffer circuits for ensuring reliable chip-to-chip communication, I/O buffer behavioural modelling, multipoint empirical models for memory interfaces, compact behavioural modelling for memristive devices, and resource reservation modelling for distributed embedded systems. The respective chapters detail new research findings, new models, algorithms, implementations and simulations of the above-mentioned topics. As such, the book will help both graduate students and researchers understand the latest research into real-time modelling and processing. **Computer Applications for Handling Legal Evidence, Police Investigation and Case Argumentation Springer Science & Business Media** This book provides an overview of computer techniques and tools — especially from artificial intelligence (AI) — for handling legal evidence, police intelligence, crime analysis or detection, and forensic testing, with a sustained discussion of methods for the modelling of reasoning and forming an opinion about the evidence, methods for the modelling of argumentation, and computational approaches to dealing with legal, or any, narratives. By the 2000s, the modelling of reasoning on legal evidence has emerged as a significant area within the well-established field of AI & Law. An overview such as this one has never been attempted before. It offers a panoramic view of topics, techniques and tools. It is more than a survey, as topic after topic, the reader can get a closer view of approaches and techniques. One aim is to introduce practitioners of AI to the modelling legal evidence. Another aim is to introduce legal professionals, as well as the more technically oriented among law enforcement professionals, or researchers in police science, to information technology resources from which their own respective field stands to benefit. Computer scientists must not blunder into design choices resulting in tools objectionable for legal professionals, so it is important to be aware of ongoing controversies. A survey is provided of argumentation tools or methods for reasoning about the evidence. Another class of tools considered here is intended to assist in organisational aspects of managing of the evidence. Moreover, tools appropriate for crime detection, intelligence, and investigation include tools based on link analysis and data mining. Concepts and techniques are introduced, along with case studies. So are areas in the forensic sciences. Special chapters are devoted to VIRTopsy (a procedure for legal medicine) and FLINTS (a tool for the police). This is both an introductory book (possibly a textbook), and a reference for specialists from various quarters. **Strengthening Forensic Science in the United States A Path Forward National Academies Press** Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. **Strengthening Forensic Science in the United States: A Path Forward** provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. **Strengthening Forensic Science in the United States** gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators. **Veterinary Clinical Pathology A Case-Based Approach CRC Press** Veterinary Clinical Pathology: A Case-Based Approach presents 200 cases with questions for those interested in improving their skills in veterinary clinical pathology. It emphasises an understanding of basic pathophysiologic mechanisms of disease, differential diagnoses and recognition of patterns associated with various diseases or conditions. Topics discussed include haematology, clinical chemistry, endocrinology, acid-base and blood gas analysis, haemostasis, urinalysis, biological variation and quality control. Species covered include the cat, dog and horse, with additional material on ruminants. Cases vary in difficulty, allowing beginners to improve their clinicopathologic skills while more complicated cases, or cases treating unfamiliar topics, are included for experienced readers. This book is a helpful revision aid for those in training as well as for those in practice who are pursuing continuing education. It is also a valuable resource for veterinary nurses and technicians. **Earth on the Edge: Science for a Sustainable Planet Proceedings of the IAG General Assembly, Melbourne, Australia, June 28 - July 2, 2011 Springer Science & Business Media** This book series is composed of peer-reviewed proceedings of selected symposia organized by the International Association of Geodesy. It deals primarily with topics related to Geodesy Earth Sciences : terrestrial reference frame, Earth gravity field, Geodynamics and Earth rotation, Positioning and engineering applications. **Wildlife Forensic Investigation Principles and Practice CRC Press** Wildlife forensics is the application of forensic science to the conservation and protection of non-domesticated animals, both in the wild and in captivity. Providing an in-depth introduction to this rapidly evolving field, **Wildlife Forensic Investigation: Principles and Practice** also chronicles aspects of the history of management, conservation, and environmental protection, with an emphasis on their global importance in the twenty-first century. The book examines the crucial role of wildlife forensic investigation with regard to live animals, dead animals and samples and covers national, regional, and international legislation. While the text particularly focuses on forensic science as it relates to wild animals, it also includes mention of plants and habitats because of their relevance to conservation. The book discusses animal welfare as well as the damage that can be inflicted on humans and property by wildlife. Offering access to sound evidence based on good science and obtained using the best available practices, the book is enhanced by case studies from experts who describe some of their own work. This resource is essential for those involved in a range of endeavours, including investigating wildlife crime, identifying animal remains, ascertaining the circumstances of death of wild species, and other legal proceedings and activities concerning wildlife. The forensic skills described in this book can be applied to a wide range of activities (not necessarily involving the legal process), including environmental impact assessments, insurance claims, governmental and other enquiries, checking of trading standards and the inspection of (for instance) pet-shops, animal boarding establishments, and zoological collections. The authors point out that one of the most important requirements of those persons involved in wildlife forensic work is to retain an open mind. Such personnel should also be conscious of new developments and evolving techniques and be able to anticipate situations where their investigative and scientific skills might be used to advantage—so-called "horizon scanning". Examples of these are given. **Mercury and the Everglades. A Synthesis and Model for Complex Ecosystem Restoration Volume II - Aquatic Mercury Cycling and Bioaccumulation in the Everglades Springer Nature** This book integrates 30 years of mercury research in the Florida Everglades to inform scientists and policy makers. The Everglades is an iconic ecosystem by virtue of its expanse; diversity of biota; and multiple international designations. Despite this, the Everglades has been subjected to multiple threats including: habitat loss, hydrologic alterations, invasive species and altered water quality. Less well recognized as a threat to Everglades human use and wildlife populations is the toxic metal, mercury. The first half of Volume II focuses on biogeochemistry and factors unique to the Everglades that make it extraordinarily susceptible to mercury methylation following its deposition: warm subtropical climate, shallow depth, high levels of dissolved organic matter, sulfate contamination, nutrient enrichment and sediment redox conditions (for review of atmospheric mercury deposition significance, see Vol. I). The second half of Volume II answers the "so what" question - why biomagnification of the methylmercury produced in the Everglades is a threat to the health of top predators including humans. The results of the synthesis presented in Volume II suggest that the mercury problem in the Florida Everglades is one of the worst in the world due to its areal extent and the degree of risk to ecological receptors and humans. **Nonlinear Mechanics of Complex Structures From Theory to Engineering Applications Springer Nature** This book covers different topics of nonlinear mechanics in complex structures, such as the appearance of new nonlinear phenomena and the behavior of finite-dimensional and distributed nonlinear systems, including numerous systems directly connected with important technological problems. **Effects of Agricultural Conservation Practices on Fish and Wildlife A Conservation Effects Assessment Project (CEAP) Bibliography "The bibliography is a guide to recent scientific literature covering effects of agricultural conservation practices on fish and wildlife. The citations listed here provide information on how conservation programs and practices designed to improve fish and wildlife habitat, as well as those intended for other purposes (e.g., water quality improvement), affect various aquatic and terrestrial fauna"--Abstract. Semiconductor Modeling: For Simulating Signal, Power, and Electromagnetic Integrity Springer Science & Business Media** Discusses process variation, model accuracy, design flow and many other practical engineering, reliability and manufacturing issues Gives a good overview for a person who is not an expert in modeling and simulation, enabling them to extract the necessary information to competently use modeling and simulation programs Written for engineering students and product design engineers **Innovation in Methodology and Practice in Language Learning Experiences and Proposals for University Language Centres Cambridge Scholars Publishing** This volume is composed of 24 papers originally presented as talks at the VIII National Conference of the Italian Association of University Language Centres (Associazione Italiana dei Centri Linguistici Universitari: AICLU), held at the University of Foggia, Italy, between 30 May and 1st June 2013. The contributions fall into five sections: 1) keynote addresses from plenary speakers; 2) innovative challenges for language centres; 3) new developments in teaching language for specific purposes; 4) proposals and case studies in Content and Language Integrated Learning; and 5) the use of new technologies in language learning. 18 papers are in English, four in Italian, one in French and one in German. The fact that three-quarters of the papers are in English reflects the way English has become the lingua franca of academic conferences today. However, in keeping with the ethos of CercleS (Confédération Européenne des Centres de Langues de l'Enseignement Supérieur, the pan-European organisation to which AICLU belongs), which is

strongly committed to promoting plurilingualism, it was crucial that contributions would also be accepted in other languages. The volume represents the 'state of the art' in the field of language teaching and theory in university language centres not only in Italy, but also in other parts of Europe and the Mediterranean, and testifies to the rich variety of ways in which these centres are adapting and thriving in rapidly changing times. A Taxonomy for Learning, Teaching, and Assessing A Revision of Bloom's Taxonomy of Educational Objectives [Pearson](#) This revision of Bloom's taxonomy is designed to help teachers understand and implement standards-based curriculums. Cognitive psychologists, curriculum specialists, teacher educators, and researchers have developed a two-dimensional framework, focusing on knowledge and cognitive processes. In combination, these two define what students are expected to learn in school. It explores curriculums from three unique perspectives-cognitive psychologists (learning emphasis), curriculum specialists and teacher educators (C & I emphasis), and measurement and assessment experts (assessment emphasis). This revisited framework allows you to connect learning in all areas of curriculum. Educators, or others interested in educational psychology or educational methods for grades K-12. Encyclopedia of E-Commerce Development, Implementation, and Management [IGI Global](#) The convenience of online shopping has driven consumers to turn to the internet to purchase everything from clothing to housewares and even groceries. The ubiquity of online retail stores and availability of hard-to-find products in the digital marketplace has been a catalyst for a heightened interest in research on the best methods, techniques, and strategies for remaining competitive in the era of e-commerce. The Encyclopedia of E-Commerce Development, Implementation, and Management is an authoritative reference source highlighting crucial topics relating to effective business models, managerial strategies, promotional initiatives, development methodologies, and end-user considerations in the online commerce sphere. Emphasizing emerging research on up-and-coming topics such as social commerce, the Internet of Things, online gaming, digital products, and mobile services, this multi-volume encyclopedia is an essential addition to the reference collection of both academic and corporate libraries and caters to the research needs of graduate-level students, researchers, IT developers, and business professionals. . Annual Index/abstracts of SAE Technical Papers Geo-Design Advances in bridging geo-information technology, urban planning and landscape architecture [TU Delft Open](#) Geo-Design. Advances in bridging geo-information technology and design bring together a wide variety of contributions from authors with backgrounds in urban planning, landscape architecture, education and geo-information technology presenting the latest insights and applications of geo-design. Geo-Design is here understood as a hybridization of the concepts "Geo" - representing the modeling, analytical and visualization capacities of GIS, and "Design" - representing spatial planning and design, turning existing situations into preferred ones. Through focusing on interdisciplinary design-related concepts and applications of GIS international experts share their recent findings and provide clues for the further development of geo-design. This is important since there is still much to do. Not only in the development of geo-information technology, but especially in bridging the gap with the design-disciplines. The uptake on using GIS is still remarkably slow among landscape architects, urban designers and planners, and when utilized it is often restricted to the basic tasks of mapmaking and data access. Knowledge development and dissemination of applications of geodesign through research, publications, and education, therefore, remain key factors. This publication draws upon the insights shared at the Geodesign Summit Europe held at Delft University of Technology in 2014. All contributions in the book are double-blind reviewed by experts in the field. Handbook of Clean Energy Systems, 6 Volume Set [John Wiley & Sons](#) The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems. Consolidating information which is currently scattered across a wide variety of literature sources, the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems. The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth, and environmental, social and economic impacts are also addressed. Topics covered include: Volume 1 - Renewable Energy: Biomass resources and biofuel production; Bioenergy Utilization; Solar Energy; Wind Energy; Geothermal Energy; Tidal Energy. Volume 2 - Clean Energy Conversion Technologies: Steam/Vapor Power Generation; Gas Turbines Power Generation; Reciprocating Engines; Fuel Cells; Cogeneration and Polygeneration. Volume 3 - Mitigation Technologies: Carbon Capture; Negative Emissions System; Carbon Transportation; Carbon Storage; Emission Mitigation Technologies; Efficiency Improvements and Waste Management; Waste to Energy. Volume 4 - Intelligent Energy Systems: Future Electricity Markets; Diagnostic and Control of Energy Systems; New Electric Transmission Systems; Smart Grid and Modern Electrical Systems; Energy Efficiency of Municipal Energy Systems; Energy Efficiency of Industrial Energy Systems; Consumer Behaviors; Load Control and Management; Electric Car and Hybrid Car; Energy Efficiency Improvement. Volume 5 - Energy Storage: Thermal Energy Storage; Chemical Storage; Mechanical Storage; Electrochemical Storage; Integrated Storage Systems. Volume 6 - Sustainability of Energy Systems: Sustainability Indicators, Evaluation Criteria, and Reporting; Regulation and Policy; Finance and Investment; Emission Trading; Modeling and Analysis of Energy Systems; Energy vs. Development; Low Carbon Economy; Energy Efficiencies and Emission Reduction. Key features: Comprising over 3,500 pages in 6 volumes, HCES presents a comprehensive overview of the latest research, developments and practical applications throughout all areas of clean energy systems, consolidating a wealth of information which is currently scattered across a wide variety of literature sources. In addition to renewable energy systems, HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal, oil and gas, energy storage systems, mitigation technologies for the reduction of environmental pollutants, and the development of intelligent energy systems. Environmental, social and economic impacts of energy systems are also addressed in depth. Published in full colour throughout. Fully indexed with cross referencing within and between all six volumes. Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields. Published in print and online. The online version is a single publication (i.e. no updates), available for one-time purchase or through annual subscription. Climate Change and Terrestrial Ecosystem Modeling [Cambridge University Press](#) Provides an essential introduction to modeling terrestrial ecosystems in Earth system models for graduate students and researchers. Handbook of Research on Unemployment and Labor Market Sustainability in the Era of Globalization [IGI Global](#) The effective utilization of available resources is a pivotal factor for production levels in modern business environments. However, when resources are limited or in excess, this effects organizational success, as well as the labor market. The Handbook of Research on Unemployment and Labor Market Sustainability in the Era of Globalization is a comprehensive reference source for the latest scholarly research on the socio-economic dynamics of unemployment and the development of new policies to assist in regulating the global labor market. Highlighting innovative approaches and relevant perspectives, such as outsourcing, trade openness, and employment protection, this publication is ideally designed for policy makers, professionals, practitioners, graduate students, and academics interested in emerging trends for labor market development. Government Reports Announcements & Index New Prospects in Environmental Geosciences and Hydrogeosciences Proceedings of the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), Tunisia 2019 [Springer Nature](#) This edited book gives a general overview on current research, focusing on geoenvironmental issues and challenges in hydrogeosciences in model regions in Asia, Europe, and America, with a focus on the Middle East and Mediterranean region and surrounding areas. This proceedings book is based on the accepted papers for oral/poster presentations at the 2nd Springer Conference of the Arabian Journal of Geosciences (CAJG-2), Tunisia 2019. It offers a broad range of recent studies that discuss the latest advances in geoenvironmental and hydrogeosciences from diverse backgrounds including climate change, geocology, biogeochemistry, water resources management, and environmental monitoring and assessment. It shares insights on how the understanding of ecological, climatological, oceanic and hydrological processes is the key for improving practices in environment management, including the eco-responsibility, scientific integrity, and social and ethical dimensions. It is of interest to scientists, engineers, practitioners, and policymakers in the field of environmental sciences including climatology, oceanography, ecology, biogeochemistry, environmental management, hydrology, hydrogeology, and geosciences in general. In particular, this book is of great value to students and environment-related professionals for further investigations on the state of Earth systems. The Great Eagles Their Evolution, Ecology and Conservation [CRC Press](#) This book examines the current literature and knowledge on the evolution and ecology of all the birds named as eagles, with particular emphasis on the larger species. It also examines the past and current relations between eagles and people, including habitat change and conservation issues. Eagle ecologies and conservation are currently seriously impacted by human activities such as industrialization, urbanization, pollution, deforestation and hunting. Some eagle species have consequently experienced extreme population changes. There are, however, some positive developments. Eagles have a strong, historic bond with human civilization, due to their status as the world's most charismatic birds. Conservation policies have also been successful in repopulating some ecosystems with breeding eagles. Therefore, despite the complexity of this relationship, there may yet be hope for this unique species group, frequently rated as the kings of birds, and symbolic of human power, ambition, royalty, nationality, and even concepts of God. It is hoped that this book will contribute to the further understanding of these unique and fantastic birds. Canadian Journal of Zoology Journal Canadien de Zoologie Papers in ITJEMAST 11(16) 2020 [International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies](#) International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications. States and Peoples in Conflict Transformations of Conflict Studies [Taylor & Francis](#) This volume evaluates the state of the art in conflict studies. Original chapters by leading scholars survey theoretical and empirical research on the origins, processes, patterns, and consequences of most forms and contexts of political conflict, protest, repression, and rebellion. Contributors examine key pillars of conflict studies, including civil war, religious conflict, ethnic conflict, transnational conflict, terrorism, revolution, genocide, climate change, and several investigations into the role of the state. The research questions guiding the text include inquiries into the interactions between the rulers and the ruled, authorities and challengers, cooperation and conflict, accommodation and resistance, and the changing context of conflict from the local to the global. The 13 Critical Tasks: An Inside-Out Approach to Solving More Gun Crime [Lulu.com](#) This book describes the people, processes, and technologies needed to extract actionable intelligence from the inside, and outside, of crime guns. Bridging the Gap Between Policy and Science in Assessing the Health Status of Marine Ecosystems, 2nd Edition [Frontiers Media SA](#) Marine management requires approaches which bring together the best research from the natural and social sciences. It requires stakeholders to be well-informed by science and to work across administrative and geographical boundaries, a feature especially important in the inter-connected marine environment. Marine management must ensure that the natural structure and functioning of ecosystems is maintained to provide ecosystem services. Once those marine ecosystem services have been created, they deliver societal goods as long as society inputs its skills, time, money and energy to gather those benefits. However, if societal goods and benefits are to be limitless, society requires appropriate administrative, legal and management mechanisms to ensure that the use of such benefits do not impact on environmental quality, but instead support its sustainable use. Blazena Marija De Mattias [Hassell Street Press](#) This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Advances in Ecological Research [Academic Press](#) The book is based on data collected during the past 10 years by Zackenberg Ecological Research Operations (ZERO) at Zackenberg Research Station in northeast Greenland. This volume covers the function of Arctic ecosystems based on the most comprehensive long-term data set in the world from a well-defined Arctic ecosystem. Editors offer a comprehensive and authoritative analysis of how climate variability is influencing an Arctic ecosystem and how the Arctic ecosystems have inherent feedback mechanisms interacting with climate variability or change. * The latest research on the functioning of Arctic ecosystems * Supplements current books on Arctic climate impact assessment as a case study for ecological specialists * Discusses the complex perpetuating effects on Earth * Vital information on modeling ecosystem responses to understand future climates Basic Sciences of Nuclear Medicine [Springer Science & Business Media](#) Nuclear medicine has become an ever-changing and expanding diagnostic and

therapeutic medical profession. The day-to-day innovations seen in the field are, in great part, due to the integration of many scientific bases with complex technologic advances. The aim of this reference book, *Basic Sciences of Nuclear Medicine*, is to provide the reader with a comprehensive and detailed discussion of the scientific bases of nuclear medicine, covering the different topics and concepts that underlie many of the investigations and procedures performed in the field. Topics include radiation and nuclear physics, Tc-99m chemistry, single-photon radiopharmaceuticals and PET chemistry, radiobiology and radiation dosimetry, image processing, image reconstruction, quantitative SPECT imaging, quantitative cardiac SPECT, small animal imaging (including multimodality hybrid imaging, e.g., PET/CT, SPECT/CT, and PET/MRI), compartmental modeling, and tracer kinetics.

Hierarchical Modeling and Inference in Ecology: The Analysis of Data from Populations, Metapopulations and Communities Elsevier A guide to data collection, modeling and inference strategies for biological survey data using Bayesian and classical statistical methods. This book describes a general and flexible framework for modeling and inference in ecological systems based on hierarchical models, with a strict focus on the use of probability models and parametric inference. Hierarchical models represent a paradigm shift in the application of statistics to ecological inference problems because they combine explicit models of ecological system structure or dynamics with models of how ecological systems are observed. The principles of hierarchical modeling are developed and applied to problems in population, metapopulation, community, and metacommunity systems. The book provides the first synthetic treatment of many recent methodological advances in ecological modeling and unifies disparate methods and procedures. The authors apply principles of hierarchical modeling to ecological problems, including * occurrence or occupancy models for estimating species distribution * abundance models based on many sampling protocols, including distance sampling * capture-recapture models with individual effects * spatial capture-recapture models based on camera trapping and related methods * population and metapopulation dynamic models * models of biodiversity, community structure and dynamics * Wide variety of examples involving many taxa (birds, amphibians, mammals, insects, plants) * Development of classical, likelihood-based procedures for inference, as well as Bayesian methods of analysis * Detailed explanations describing the implementation of hierarchical models using freely available software such as R and WinBUGS * Computing support in technical appendices in an online companion web site

Becoming a Critically Reflective Teacher John Wiley & Sons Defining Racist and Racism -- The Slippery Nature of Racial Microaggressions -- The Inability of Whites to See Themselves as Racial Beings -- Using Narrative Disclosure to Set a Tone for Examining Race -- Colleagues as Critical Lenses on Race -- What Students' Eyes Tell Us about Examining Race in the Classroom -- We Need to Prep Students -- Modeling by Leaders Is Crucial -- Conversations about Race Will Not Produce Solutions -- Normalizing Racism -- Conclusion -- Chapter 13: Negotiating the Risks of Critical Reflection -- Impostorship -- Dealing with Impostorship -- Cultural Suicide -- Avoiding Cultural Suicide -- Lost Innocence -- Marginalization -- Avoiding Political Marginalization -- Conclusion -- Chapter 14: Practicing Critically Reflective Leadership -- What Is Critically Reflective Leadership? -- Followers' Eyes -- Colleagues' Perceptions -- Theory -- Personal Experience -- Embedding Critical Reflection in Meetings -- The Circle of Voices -- The Critical Incident Questionnaire (CIQ) -- Clearness Committee -- Appreciative Pause -- Modeling Critically Reflective Leadership -- Conclusion -- Bibliography -- Index -- EULA

Habitat Suitability and Distribution Models with Applications in R Cambridge University Press This book introduces the key stages of niche-based habitat suitability model building, evaluation and prediction required for understanding and predicting future patterns of species and biodiversity. Beginning with the main theory behind ecological niches and species distributions, the book proceeds through all major steps of model building, from conceptualization and model training to model evaluation and spatio-temporal predictions. Extensive examples using R support graduate students and researchers in quantifying ecological niches and predicting species distributions with their own data, and help to address key environmental and conservation problems. Reflecting this highly active field of research, the book incorporates the latest developments from informatics and statistics, as well as using data from remote sources such as satellite imagery. A website at www.unil.ch/hsdm contains the codes and supporting material required to run the examples and teach courses.

The Indus Basin of Pakistan: The Impacts of Climate Risks on Water and Agriculture World Bank Publications This study assesses the impacts of climate risks and development alternatives on water and agriculture in the Indus basin of Pakistan. It analyzes inter-relationships among the climate, water, and agriculture sectors and provides a systems modeling framework for these purposes. *Transmission Lines in Computer Engineering* McGraw-Hill Companies As digital circuit devices continue to increase in speed, interconnection techniques are becoming a crucial element in a system's overall speed and reliability. This work is a guide to state-of-the-art interconnection design and layout, containing practical information and illustrations. The book features thorough explanations of crosstalk on transmission lines, a topic which is often difficult to understand.

Mapping Wilderness: Concepts, Techniques and Applications Springer This volume gives a comprehensive overview of wilderness mapping, and in doing so covers the conceptual and philosophical foundations, techniques and methodological approaches, and applications at a variety of spatial scales. The Editors have brought together a range of contributors who are both experts in their field and cutting-edge thinkers in the wilderness and spatial mapping domain. Spatial information technology and mapping science is a rapidly expanding and a developing field and so it is expected to be able to add to this volume in the future. This book provides a record of the "state of the art" and will enable the reader to follow this lead and map his/her own wilderness.

Semantic Modeling for Data O'Reilly Media What value does semantic data modeling offer? As an information architect or data science professional, let's say you have an abundance of the right data and the technology to extract business gold—but you still fail. The reason? Bad data semantics. In this practical and comprehensive field guide, author Panos Alexopoulos takes you on an eye-opening journey through semantic data modeling as applied in the real world. You'll learn how to master this craft to increase the usability and value of your data and applications. You'll also explore the pitfalls to avoid and dilemmas to overcome for building high-quality and valuable semantic representations of data. Understand the fundamental concepts, phenomena, and processes related to semantic data modeling Examine the quirks and challenges of semantic data modeling and learn how to effectively leverage the available frameworks and tools Avoid mistakes and bad practices that can undermine your efforts to create good data models Learn about model development dilemmas, including representation, expressiveness and content, development, and governance Organize and execute semantic data initiatives in your organization, tackling technical, strategic, and organizational challenges

Tropical Rainforest Responses to Climatic Change Springer Science & Business Media The goal of this book is to provide a current overview of the impacts of climate change on tropical forests, to investigate past, present, and future climatic influences on the ecosystems with the highest biodiversity on the planet. *Tropical Rainforest Responses to Climatic Change* will be the first book to examine how tropical rain forest ecology is altered by climate change, rather than simply seeing how plant communities were altered. Shifting the emphasis onto ecological processes e.g. how diversity is structured by climate and the subsequent impact on tropical forest ecology, provides the reader with a more comprehensive coverage. A major theme of this book that emerges progressively is the interaction between humans, climate and forest ecology. While numerous books have appeared dealing with forest fragmentation and conservation, none have explicitly explored the long term occupation of tropical systems, the influence of fire and the future climatic effects of deforestation, coupled with anthropogenic emissions. Incorporating modelling of past and future systems paves the way for a discussion of conservation from a climatic perspective, rather than the usual plea to stop logging.

Modeling and Simulation in Scilab/Scicos with ScicosLab 4.4 Springer Science & Business Media Scilab and its Scicos block diagram graphical editor, with a special emphasis on modeling and simulation tools. The first part is a detailed Scilab tutorial, and the second is dedicated to modeling and simulation of dynamical systems in Scicos. The concepts are illustrated through numerous examples, and all code used in the book is available to the reader.