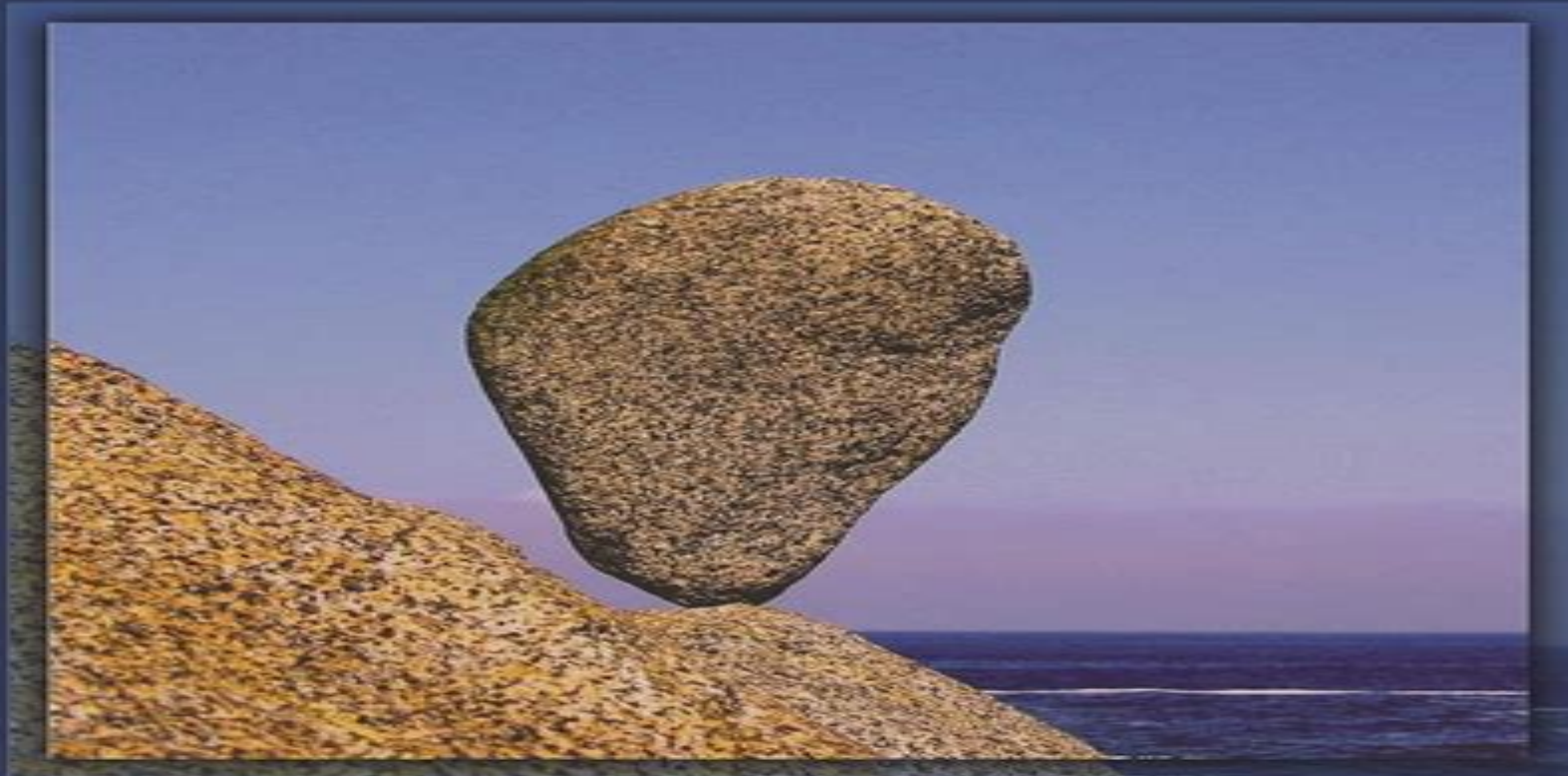


Critical Transitions in Nature and Society



Marten Scheffer

PRINCETON STUDIES IN COMPLEXITY

Critical Transitions In Nature And Society Princeton Studies In Complexity

Marten Scheffer



Critical Transitions In Nature And Society Princeton Studies In Complexity:

Critical Transitions in Nature and Society Marten Scheffer, 2020-11-10 How do we explain the remarkably abrupt changes that sometimes occur in nature and society and can we predict why and when they happen This book offers a comprehensive introduction to critical transitions in complex systems the radical changes that happen at tipping points when thresholds are passed Marten Scheffer accessibly describes the dynamical systems theory behind critical transitions covering catastrophe theory bifurcations chaos and more He gives examples of critical transitions in lakes oceans terrestrial ecosystems climate evolution and human societies And he demonstrates how to deal with these transitions offering practical guidance on how to predict tipping points how to prevent bad transitions and how to promote critical transitions that work for us and not against us Scheffer shows the time is ripe for understanding and managing critical transitions in the vast and complex systems in which we live This book can also serve as a textbook and includes a detailed appendix with equations Provides an accessible introduction to dynamical systems theory Covers critical transitions in lakes oceans terrestrial ecosystems the climate evolution and human societies Explains how to predict tipping points Offers strategies for preventing bad transitions and triggering good ones Features an appendix with equations

Critical Transitions in Nature and Society Marten Scheffer, 2009-07-26 Offers an introduction to critical transitions in complex systems the radical changes that happen at tipping points when thresholds are passed This title describes the dynamical systems theory behind critical transitions covering catastrophe theory bifurcations and chaos BOOK PUBLISHER WEBSITE [Complexity Science](#) Henrik Jeldtoft Jensen, 2022-11-17 Ecosystems the human brain ant colonies and economic networks are all complex systems displaying collective behaviour or emergence beyond the sum of their parts Complexity science is the systematic investigation of these emergent phenomena and stretches across disciplines from physics and mathematics to biological and social sciences This introductory textbook provides detailed coverage of this rapidly growing field accommodating readers from a variety of backgrounds and with varying levels of mathematical skill Part I presents the underlying principles of complexity science to ensure students have a solid understanding of the conceptual framework The second part introduces the key mathematical tools central to complexity science gradually developing the mathematical formalism with more advanced material provided in boxes A broad range of end of chapter problems and extended projects offer opportunities for homework assignments and student research projects with solutions available to instructors online Key terms are highlighted in bold and listed in a glossary for easy reference while annotated reading lists offer the option for extended reading and research

Complexity Science in Air Traffic Management Andrew Cook, Damián Rivas, 2016-06-03 Air traffic management ATM comprises a highly complex socio technical system that keeps air traffic flowing safely and efficiently worldwide every minute of the year Over the last few decades several ambitious ATM performance improvement programmes have been undertaken Such programmes have mostly delivered local technological solutions whilst corresponding ATM

performance improvements have fallen short of stakeholder expectations. In hindsight, this can be substantially explained from a complexity science perspective. ATM is simply too complex to address through classical approaches such as system engineering and human factors. In order to change this, complexity science has to be embraced as ATM's best friend. The applicability of complexity science paradigms to the analysis and modelling of future operations is driven by the need to accommodate long-term air traffic growth within an already saturated ATM infrastructure. Complexity Science in Air Traffic Management is written particularly but not exclusively for transport researchers, though it also has a complementary appeal to practitioners supported through the frequent references made to practical examples and operational themes such as performance, airline strategy, passenger mobility, delay propagation, and free flight safety. The book should also have significant appeal beyond the transport domain due to its intrinsic value as an exposition of applied complexity science and applied research drawing on examples of simulations and modelling throughout with corresponding insights into the design of new concepts and policies and the understanding of complex phenomena that are invisible to classical techniques.

Evolution and Transitions in Complexity Gerard A.J.M. Jagers op Akkerhuis, 2016-10-18. This book discusses several recent theoretic advancements in interdisciplinary and transdisciplinary integration in the field of evolution. While exploring novel views, the text maintains a close link with one of the most broadly held views on evolution, namely that of Darwinian evolution. This work puts forth a new point of view which allows researchers to define in detail the concept of evolution. To create this conceptual definition, the text applies a stringent object-based focus. With this focus, the editor has been able to develop an object-based pattern of evolution at the smallest scale. Subsequently, this smallest scale pattern is used as an innovative basis for generalizations. These generalizations create links between biological Darwinism and generalized Darwinism. The object-based approach that was used to suggest innovations in the field of Darwinian evolution also allowed for contributions to other topics such as major evolutionary transitions, theory, the definition of life, and the relationships between evolution, self-organization, and thermodynamics. Together, the chapters of this book and the multidisciplinary reflections and comments of various specialists on these chapters offer an exciting palette of innovative ideas. Quantum Decision Theory and Complexity Modelling in Economics and Public Policy Anirban Chakraborti, Emmanuel Haven, Sudip Patra, Naresh Singh, 2023-09-21. This book is an outcome of the interdisciplinary conference held at OP Jindal Global University. Quantum decision making and complexity modeling and their possible applications in social sciences, economics, finance, and public policy. The volume builds upon the emerging fields of econophysics, complexity theory, and quantum-like modelling in cognition and social sciences and their plausible applications in economics and public policy. There can be deep linkages between the micro, meso, and macro scales at which these paradigms operate. In this data-driven age, greater amounts of information along with the facility to harvest, sort, and process said information have permitted an expansion of the capability to study a society's various factors to a degree of detail and inclusiveness that has never before been available.

to researchers As a result an increasing number of throughlines is being discovered revealing heretofore unknown connections between various disciplines and enhancing the study of such societal tropes as finance language shared behavior and many others As the reader will see with clearer understanding of the interconnectedness of society s assorted parts comes a clearer understanding of the society as a whole We have received critical thoughts from noted experts in social and natural sciences to explore possible interconnections The editors of this book earnestly hope that the critical reviews presented in this volume will stimulate further scholarly interest but also interest among policy practitioners for the purpose of exploring possibilities for creating a new paradigm for comprehending pressing issues of deep uncertainty and emergence in social dynamics

An Integrated Approach to Environmental Management Dibyendu Sarkar,Rupali Datta,Avinandan Mukherjee,Robyn Hannigan,2015-11-02 Covers the most recent topics in the field of environmental management and provides a broad focus on the theoretical and methodological underpinnings of environmental management Provides an up to date survey of the field from the perspective of different disciplines Covers the topic of environmental management from multiple perspectives namely natural sciences engineering business social sciences and methods and tools perspectives Combines both academic rigor and practical approach through literature reviews and theories and examples and case studies from diverse geographic areas and policy domains Explores local and global issues of environmental management and analyzes the role of various contributors in the environmental management process Chapter contents are appropriately demonstrated with numerous pictures charts graphs and tables and accompanied by a detailed reference list for further readings

Efficiency in Complex Systems Georgi Yordanov Georgiev,Mahmoud Shokrollahi-Far,2022-02-24 This book uses new ideas and language for understanding how self organization and complexity trend toward increased efficiency Different measures for efficiency from multiple disciplines are used to probe the ones that provide the most insight One major goal is to seek a common framework to trace the increase of efficiency as a measure of the level of organization and evolutionary stage of a complex system The chapters come from a satellite meeting hosted at the Conference on Complex Systems in Cancun 2017 The contributions will be peer reviewed and contributors from outside the conference will be invited to submit chapters to ensure full coverage of the topics This text will appeal to students and researchers working on complex systems and efficiency

Complex Systems and Population Health Yorghos Apostolopoulos,Kristen Hassmiller Lich,Michael Kenneth Lemke,2020 Complex Systems and Computation in Public Health Sciences is the first comprehensive book in population health science that meaningfully integrates complex systems theory methodology modeling computational simulation and real world applications while incorporating current population health perspectives

The Wiley Blackwell Companion to Tourism Alan A. Lew,C. Michael Hall,Allan M. Williams,2014-06-03 The Wiley Blackwell Companion to Tourism presents a collection of readings that represent an essential and authoritative reference on the state of the art of the interdisciplinary field of tourism studies Presents a comprehensive and critical overview of tourism studies across the social

sciences Introduces emerging topics and reassesses key themes in tourism studies in the light of recent developments
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edge perspectives on topics that include tourism s role in globalization sustainable tourism and the state s role in tourism
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