



MARION HERSH

Mathematical Modelling for Sustainable Development

Mathematical Models For Sustainable Development

Marion Hersh



Mathematical Models For Sustainable Development:

Mathematical Modelling for Sustainable Development Marion Hersch, 2006-01-02 Many people are convinced that Sustainable Development and Mathematics are completely unrelated Sustainable Development in its role of a value laden imperative for polluting and over consuming societies seems to be totally unconnected to mathematical reasoning and ignorant of the values behind its symbols Still they are not only connected they need each other Mathematics needs Sustainable Development When science was gradually reinvented in European medieval societies it was legitimised as contributing to the disclosure of God's divine creation The conflicts that emerged became well known as a result of the clash between Galileo and the Church Science found a new legitimacy through recognition that it was a powerful force against superstition In the Enlightenment the argument was pushed forward by attributing Progress to the advancement of science science could produce a better world by promoting rationality In our modern society science has become intimately linked to technology Science for its own sake unfortunately rarely has positive outcomes in terms of research grant applications Meanwhile science and technology and the progress they are supposed to produce meet with wide scale scepticism We all know of the current global problems climate change resource depletion a thinning ozone layer space debris declining biodiversity malnutrition dying ecosystems global inequity and the risk of unprecedented nuclear wars Science has to engage with these problems or lose its legitimacy *Mathematical Modelling for Sustainable Development* Marion Hersch, 2009-09-02 This reference offers both a basic introduction and advanced technical details of available mathematical and computing methods for modeling sustainable development closing an existing gap in this field as well as illustrating their use through case studies and examples The methods and case studies presented here are targeted at sustainable development although they have a wide range of other applications including economics medicine and control systems

Sustainable Management of Natural Resources Michel De Lara, Luc Doyen, 2008-08-07 Nowadays environmental issues including air and water pollution climate change overexploitation of marine ecosystems exhaustion of fossil resources conservation of biodiversity are receiving major attention from the public stakeholders and scholars from the local to the planetary scales It is now clearly recognized that human activities yield major ecological and environmental stresses with irreversible loss of species destruction of habitat or catastrophic examples of their effects In fact these anthropogenic activities impact not only the states and dynamics of natural resources and ecosystems but also alter human health well being welfare and economic wealth since these resources are support features for human life The numerous outputs furnished by nature include direct goods such as food drugs energy along with indirect services such as the carbon cycle the water cycle and pollination to cite but a few Hence the various ecological changes our world is undergoing draw into question our ability to sustain economic production wealth and the evolution of technology by taking natural systems into account The concept of sustainable development covers such concerns although no universal consensus exists about this

notion Sustainable developmentphasizes the need to organize and control the dynamics and the complex teractions between man production activities and natural resources in order to promote their coexistence and their common evolution It points out the importance of studying the interfaces between society and nature and es
ciallythecouplingbetweeneconomicsandecology Itinducesinterdisciplinary scienti c research for the assessment the conservation and the management of natural resources Biology and Sustainable Development Goals A. A.

Elsadany,Waleed Adel,Yassine Sabbar,2025-05-30 This edited book provides a comprehensive framework for the integration of mathematical methodologies into biological research emphasizing applications that directly address topics related to SDG 3 Good Health and Well Being and SDG 6 Clean Water and Sanitation From the mathematical modeling of infectious diseases to the design of smart agricultural systems each chapter presents key global issues where mathematical analysis is a powerful tool for driving progress This work emphasizes the importance of mathematical models in predicting outcomes optimizing interventions and understanding the dynamics of complex biological systems The central theme of the book is the application of mathematical methods ranging from deterministic models stochastic processes fractional calculus and machine learning algorithms to biological problems framed in the context of sustainability Each chapter is crafted to showcase how mathematical models not only enhance our understanding of biological phenomena but also play a pivotal role in developing solutions to global issues such as pandemics environmental degradation and resource management **Dynamic**

Management of Sustainable Development Zigurds Krishans,Anna Mutule,Yuri Merkuryev,Irina Oleinikova,2011-03-23 Dynamic management of systems development is a precondition for the realization of sustainable system development This approach allows for the usage of systems theory methods that take into consideration the interaction of decisions made over time and space A characteristic feature of this kind of method is that the process of sophisticated object development over time is examined for optimal decision selection This requires the application of modelling methods that represent properties of the developing objects high speed calculation methods for the estimation of technical and economic characteristics as well as effective optimization methods Dynamic Management of Sustainable Development presents a concise summary of the authors research in the area of dynamic methods analysis of technical systems development Along with systematic illustration of mathematical methods considerable attention is drawn to practical realization and applications Dynamic Management of Sustainable Development will be helpful for scientists involved in the mathematical modelling of large technical systems development and for engineers working in the area of large technical systems planning **Researching**

Mathematical Modelling Education in Disruptive Times Hans-Stefan Siller,Vince Geiger,Gabriele Kaiser,2024-06-03 This edited volume documents research on mathematical modelling education before during and after the Covid 19 pandemic Mathematical modelling is essential for understanding natural and human generated phenomena and informs decision making about events such as the pandemic climate change and other disruptive events Communication to the public often by

the media makes use of mathematical modelling to justify changes to public policy as seen during the COVID 19 crisis. Consequently mathematical modelling has assumed an increasingly prominent role in curricula internationally providing opportunities to understand how it is used in current circumstances and to plan for the needs of future societies. This book focuses on research on mathematical modelling education and its implementation at school and tertiary level. Contributions to the book and point to directions for further innovation in mathematical modelling education. Authors of this volume are members of the International Community of Teachers of Mathematical Modelling the peak research body for the teaching and learning of mathematical modelling.

Multidisciplinary Research Area in Arts, Science & Commerce (Volume-5) Chief Editor- Biplab Auddya, Editor- Dr. Rinki Mishra, Dr. Rajeshwari Ullagaddi, Dr. Ruma Bhadauria, Dr. Aakriti Rathi, Dr. N.V. Raghu Babu, Mr. Romero D'Souza, 2025-08-06

Mathematical Modelling Education and Sense-making Gloria Ann Stillman, Gabriele Kaiser, Christine Erna Lampen, 2020-05-14. This volume documents on going research and theorising in the sub field of mathematics education devoted to the teaching and learning of mathematical modelling and applications. Mathematical modelling provides a way of conceiving and resolving problems in people's everyday lives as well as sophisticated new problems for society at large. Mathematical modelling and real world applications are considered as having potential for cultivating sense making in classroom settings. This book focuses on the educational perspective researching the complexities encountered in effective teaching and learning of real world modelling and applications for sense making is only beginning. All authors of this volume are members of the International Community of Teachers of Mathematical Modelling ICTMA the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace.

Recent Developments in Mathematical, Statistical and Computational Sciences D. Marc Kilgour, Herb Kunze, Roman Makarov, Roderick Melnik, Xu Wang, 2021-08-29. This book constitutes an up to date account of principles methods and tools for mathematical and statistical modelling in a wide range of research fields including medicine health sciences biology environmental science engineering physics chemistry computation finance economics and social sciences. It presents original solutions to real world problems emphasizes the coordinated development of theories and applications and promotes interdisciplinary collaboration among mathematicians statisticians and researchers in other disciplines. Based on a highly successful meeting the International Conference on Applied Mathematics Modeling and Computational Science AMMCS 2019 held from August 18 to 23 2019 on the main campus of Wilfrid Laurier University Waterloo Canada the contributions are the results of submissions from the conference participants. They provide readers with a broader view of the methods ideas and tools used in mathematical statistical and computational sciences.

Mathematical Computing and Sustainability Shalli Rani, Syed Hassan Shah, Ayush Dogra, 2025-10-20. The book is likely intended to provide a thorough knowledge of the complex relationships between computational intelligence mathematical computing and sustainability. By taking an interdisciplinary approach the author

may strive to connect theoretical frameworks with practical applications providing readers with a road map for navigating the intricacies of addressing long term difficulties The book could use case studies and examples to demonstrate how cutting edge technologies and mathematical models can be used to analyse and solve real world sustainability problems ultimately encouraging a holistic approach that fosters innovative solutions based on computational and mathematical principles This book is planned to cover the comprehensive investigation into the synergies between Computational Intelligence CI Mathematical Computing and Sustainability An examination of the possible impact of intelligent systems on sustainability new concepts and approaches for incorporating CI and mathematical computing into sustainable practices etc There will be chapters explaining the Exploration of upcoming technologies e g quantum computing bio inspired computing and their potential role in promoting sustainability

Knowledge for Sustainable Development Unesco,2002 This three volume set presents a multidisciplinary examination of the global life support systems on which we depend by providing a selection of articles on sustainable development issues written by international experts Volume 1 focuses on the earth and atmospheric sciences mathematical biological and medical sciences social sciences and humanities physical sciences engineering and technology resources Volume 2 covers chemical sciences energy science and water engineering as well as the main issues related to environmental sciences and ecological resources Volume 3 offers a comprehensive view of food and agricultural engineering resources the management of human and natural resources economic and institutional resources information technology and systems management as well as a regional overview of sustainable development issues Each article includes a bibliography a glossary and a guide to further information available as part of the on line Encyclopedia version <http://www.eolss.net>

Supercomputing Vladimir Voevodin, Sergey Sobolev, 2020-12-05 This book constitutes the refereed post conference proceedings of the 6th Russian Supercomputing Days RuSCDays 2020 held in Moscow Russia in September 2020 The 51 revised full and 4 revised short papers presented were carefully reviewed and selected from 106 submissions The papers are organized in the following topical sections parallel algorithms supercomputer simulation HPC BigData AI architectures technologies tools and distributed and cloud computing The conference was held virtually due to the COVID 19 pandemic

OCEANOGRAPHY- Volume III Chen-Tung Arthur Chen, Jacques C. J. Nihoul, 2009-04-16 Oceanography is a component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes deal with the oceans as an integrated dynamic system characterized by a delicate complex system of interactions among the biota the ocean boundaries with the solid earth and the atmosphere This set of volumes is designed to be a very authoritative reference for state of the art knowledge on the various aspects such as Physical Oceanography Chemistry of the oceans Biological Oceanography Geological oceanography Coral Reefs as a Life Supporting System Human Uses of the Oceans Ocean Engineering and Modeling the Ocean System from a Sustainable Development perspective These volumes are aimed at the following five

major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

World Energy and Transitions to Sustainable Development Lev S. Belyaev, 2002-09-30 This book presents the results of a study of long term perspectives for energy development of the world and its main regions performed at the Siberian Energy Institute of the Russian Academy of Sciences Energy Systems Institute since 1998 The methodological approach the 10 regional Global Energy Model GEM 10R of the world energy system energy demand forecasts data on energy resources and energy technologies and results of calculations based on mathematical models are described Particular attention is given to determination of energy requirements and peculiarities of its technological structure that are caused by mankind s necessary transition to sustainable development Economic and ecological consequences of constraints on greenhouse gas emissions and scales of nuclear energy production as well as assistance of developed countries to developing ones are investigated Problems of cheap oil gas and uranium resources depletion fuel price growth synthetic fuel production and new energy technology implementation are analysed The book is intended for specialists in energy and economics as well as students and postgraduate students of technical high schools and universities ac

Systems and Models Hartmut Bossel, 2007 A multitude of complex systems and actors pursuing their own agenda shape the dynamics of our world Better understanding of their actions and interactions is crucial and can be achieved by a profound knowledge of systems and their properties and their representation in models allowing simulation of probable behavior Drawing on his extensive research and teaching experience in modeling and simulation of a wide range of systems from engineering to social systems and ecosystems the author presents the fundamental concepts and approaches for understanding and modeling the complex systems shaping the dynamics of our world The book applies state space analysis and system dynamics to deal with the dynamic processes of causal systems discusses information processing approaches for modeling decision processes of actors and agents and uses aspects of the coevolutionary development of systems in their environment to deal with normative orientation ethics and evaluation of policies and long term development The concepts are applied in particular to the issue of sustainable development of human society in an evolving world The book is complemented by a survey of system topics and of models from many fields and by an extensive bibliography on the many systems related subjects covered Hartmut Bossel is Professor Emeritus of environmental systems analysis He taught for many years at the University of California in Santa Barbara and the University of Kassel Germany where he was director of the Center for Environmental Systems Research until his retirement He holds an engineering degree from the Technical University of Darmstadt and a Ph D degree from the University of California at Berkeley With a background in engineering systems science and mathematical modeling he has led many research projects and future studies in different countries developing computer simulation models and decision support systems in the areas of energy supply policy global dynamics orientation of behavior agricultural policy and forest dynamics and management He has written numerous books on modeling

and simulation of dynamic systems social change and future paths and has published widely in the scientific literature in several fields Bossel is author of a System Zoo containing over one hundred simulation models of diverse systems

The Political Economy of Intra-BRICS Cooperation Siphamandla Zondi, 2022-07-07 This book uses the idea of internal cohesion through intra BRICS cooperation to make the argument that the next phase in the evolution of BRICS is to strengthen cooperation among BRICS countries in the implementation of decisions taken There is a risk that what the BRICS promises and what it represents both in the eyes of its friends and foes might not materialise in the absence of central institutions So the book calls for the deepening intra BRICS cooperation across all policy areas where there are already undertakings could help mitigate this risk

Sustainable Development And Principles Of Social Systems Modeling Alexander Makarenko, 2021-01-06 This book proposes one of the possible approaches to solving problems of modeling large social systems First the issues that needs to be considered when developing models are qualitatively described In this regard analogies of the behavior of large social systems with artificial neural networks are indicated Some issues of the mental properties of an individual are given which should be taken into account when building models One of the main among them is taking into account the internal image of the external world in the representation of the individual Consideration of the inner image allowed proposing new ways to consider other common problems for example the archetypes in consciousness Consideration of the issues indicated above made it possible to propose appropriate mathematical models that allowed for example describing some aspects of the problem of sustainable development Some issues of anticipation in to public systems are considered The book also contains mathematical models of both large social systems and some mental processes of individuals In some cases illustrations of the application of the proposed models are given to geopolitics the stock market the formation of public opinion

Ecological Modelling for Sustainable Development (Penerbit USM) Koh Hock Lye, Teh Su Yean, Shahrul Anuar Mohd Sah, Zary Shariman Yahaya, Anita Talib, 2013 In view of the current global scenario which highlighted the importance of sustainable development and sustaining natural resources the theme selected for the 2nd Regional ECOMOD 2007 Conference was indeed appropriate This conference has generated overwhelming interest and I am sure the participants have focussed diligently on the serious issues concerning important environmental issues and steps needed to be taken towards a sustainable development and management of our natural resources and environment As governments in the Asian region introduce new initiatives and development policies to rejuvenate and protect their environment and natural resources it is imperative that universities and research institutions play a fundamental role in ensuring that the objectives of these policies are realized Such institutions can complement government proposals by embarking on research that is relevant and valuable to the needs of respective nations and pursuing extensive research so that the outcome and technology generated can be transferred effectively to the end users This concerted effort by all the researchers from different fields to improve and manage our natural resources should be lauded I strongly believe that this

conference is an extraordinary testimony to our capacity building at regional and local levels I believe USM has something interesting to share with all of you in this area Finally on behalf of the Organizing Committee I hope readers will find this book of proceedings useful informative and stimulating

Pollution Abstracts ,1994 Indexes material from conference proceedings and hard to find documents in addition to journal articles Over 1 000 journals are indexed and literature published from 1981 to the present is covered Topics in pollution and its management are extensively covered from the standpoints of atmosphere emissions mathematical models effects on people and animals and environmental action Major areas of coverage include air pollution marine pollution freshwater pollution sewage and wastewater treatment waste management land pollution toxicology and health noise and radiation

Subject Guide to Books in Print ,1995

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