



MARION HERSH

# Mathematical Modelling for Sustainable Development

# Mathematical Models For Sustainable Development

**Jessica J Manson**



## **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

**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 interactions 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 especially the coupling between economics and ecology It induces interdisciplinary scientific 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

**Multidisciplinary Research Area in Arts, Science & Commerce (Volume-5)** Chief Editor- Biplab Auddy, 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

**Trends in Biomathematics: Mathematical Modeling for Health, Harvesting, and Population Dynamics** Rubem P. Mondaini, 2019-10-03 This volume offers a collection of carefully selected peer reviewed papers presented at the BIOMAT 2018 International Symposium which was held at the University Hassan II Morocco from October 29th to November 2nd 2018 The topics covered include applications of mathematical modeling in hepatitis B HIV and Chikungunya infections tumor cell dynamics inflammatory processes chemotherapeutic drug effects and population dynamics Also discussing the application of techniques like the generalized stochastic Milevsky Promislov model numerical simulations and convergence of discrete and continuous models it is an invaluable resource on interdisciplinary research in mathematical biology for students researchers and professionals Held every year since 2001 the BIOMAT International Symposium gathers together in a single conference researchers from Mathematics Physics Biology and affine fields to promote the interdisciplinary exchange of results ideas and techniques promoting truly international cooperation for problem discussion The 2018 edition of BIOMAT International Symposium received contributions by authors from seventeen countries Algeria Brazil Cameroon Canada Chad Colombia France Germany Hungary Italy Mali Morocco Nigeria Poland Portugal Russia and Senegal Selected papers presented at the 2017 edition of this Symposium were also published by Springer in the volume Trends in Biomathematics Modeling Optimization and Computational Problems 978 3 319 91091 8

*Mathematical Modelling and Optimization of Engineering Problems* J. A. Tenreiro Machado, Necati Özdemir, Dumitru Baleanu, 2020-02-12 This book presents recent developments in modelling and optimization of engineering systems and the use of advanced mathematical methods for solving complex real world problems It provides recent theoretical developments and new techniques based on control optimization theory mathematical modeling and fractional calculus that can be used to model

and understand complex behavior in natural phenomena including latest technologies such as additive manufacturing Specific topics covered in detail include combinatorial optimization flow and heat transfer mathematical modelling energy storage and management policy artificial intelligence optimal control modelling and optimization of manufacturing systems

**Mathematical Models for Neglected Tropical Diseases: Essential Tools for Control and Elimination, Part A**

,2015-03-10 First published in 1963 *Advances in Parasitology* contains comprehensive and up to date reviews in all areas of interest in contemporary parasitology *Advances in Parasitology* includes medical studies of parasites of major influence such as *Plasmodium falciparum* and trypanosomes The series also contains reviews of more traditional areas such as zoology taxonomy and life history which shape current thinking and applications The 2013 impact factor is 4.36 Informs and updates on all the latest developments in the field Contributions from leading authorities and industry experts **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 **Issues in**

**Global Environment: Biodiversity, Resources, and Conservation: 2011 Edition** ,2012-01-09 *Issues in Global Environment Biodiversity Resources and Conservation 2011 Edition* is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about *Global Environment Biodiversity Resources and Conservation* The editors have built *Issues in Global Environment Biodiversity Resources and Conservation 2011 Edition* on the vast information databases of ScholarlyNews You can expect the information about *Global Environment Biodiversity Resources and Conservation* in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Issues in Global Environment Biodiversity Resources and Conservation 2011 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is

available at <http://www.ScholarlyEditions.com>

**Aspects of Mathematical Modelling** Roger J. Hosking, Ezio

Venturino, 2008-03-02 The construction of mathematical models is an essential scientific activity. Mathematics is associated with developments in science and engineering but more recently mathematical modelling has been used to investigate complex systems that arise in other fields. This book demonstrates the application of mathematics to research topics in ecology and environmental science, health and medicine, phylogenetics and neural networks, theoretical chemistry, economics and management.

*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 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 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.

**Mathematical Modelling Education and Sense-making**

Gloria Ann Stillman, Gabriele Kaiser, Christine Erna Lampen, 2020-05-14 This volume documents ongoing 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. Research on 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.

**Mathematical Modeling and Simulation of Systems** Serhiy Shkarlet, Anatoliy Morozov, Alexander Palagin, Dmitri Vinnikov, Nikolai Stoianov, Mark Zhelezniak, Volodymyr Kazymyr, 2023-07-04 Modern complex multi-domain systems require increased efficiency, reliability and availability combined with reduced cost. This book contains papers on mathematical modeling and simulation of processes in various areas: ecology and the environment, production and energy, information technology, samples of special purpose equipment and cyber-physical systems. The outcomes presented in the book are useful

to specialists involved in the modeling and simulation of real world system management and decision making models production models and software products Scientists have the opportunity to familiarize themselves with the latest research in a variety of solutions proposed by leading scientists and to determine promising directions for solving complex scientific and practical tasks Chapters of this book contain papers presented at the 17th MODS International Conference November 14 16 2022 Chernihiv Ukraine

**OUR FRAGILE WORLD: Challenges and Opportunities for Sustainable Development - Volume II** M. K. Tolba, 2001-08-23 This publication Our Fragile World Challenges and Opportunities for Sustainable Development presents perspectives of several important subjects that are covered in greater detail and depth in the Encyclopedia of Life Support Systems EOLSS The contributions to the two volumes provide an integrated presentation of knowledge and worldviews related to the state of Earth's natural resources social resources institutional resources and economic and financial resources They present the vision and thinking of over 200 authors in support of efforts to solve the complex problems connected with sustainable development and to secure perennial life support on The Blue Planet These contributions are holistic informative forward looking and will be of interest to a broad readership This volume presents contributions with focus on the Economic and Institutional Dimensions of Sustainable Development in two sections KNOWLEDGE TECHNOLOGY AND MANAGEMENT Knowledge Technology and Management Economics Finance and trade POLICY AND INSTITUTIONAL IMPLICATIONS FOR SUSTAINABLE DEVELOPMENT Policy Issues Institutional implications Regional Analysis

**Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy** Manoj Sahni, José M. Merigó, Ritu Sahni, Rajkumar Verma, 2021-12-11 This book presents new knowledge and recent developments in all aspects of computational techniques mathematical modeling energy systems and applications of fuzzy sets and intelligent computing The book is a collection of best selected research papers presented at the Second International Conference on Mathematical Modeling Computational Intelligence Techniques and Renewable Energy MMCITRE 2021 organized by the Department of Mathematics Pandit Deendayal Petroleum University in association with Forum for Interdisciplinary Mathematics The book provides innovative works of researchers academicians and students in the area of interdisciplinary mathematics statistics computational intelligence and renewable energy

**XIV International Scientific Conference "INTERAGROMASH 2021"** Alexey Beskopylny, Mark Shamtsyan, 2021-10-30 This book contains original and fundamental research papers in the following areas engineering technologies for precision agriculture agricultural systems management and digitalization in agriculture logistics in agriculture and other topics Selected materials of the largest regional scientific event INTERAGROMASH 2021 conference included in this book present the results of the latest research in the areas of precision agriculture and agricultural machinery industry The book is aimed for professionals and practitioners for researchers scholars and producers The materials presented here are used in the educational process at specific agricultural universities or during vocational training at enterprises and become an indispensable helper to farm

managers in making the best agronomic decisions The book is also useful for representatives of regional authorities as it gives an idea of existing high tech solutions for agriculture

**Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office,2009 [Library of Congress Subject Headings](#) Library of Congress,Library of Congress. Office for Subject Cataloging Policy,2012 **Math for Justice: Empowering Communities Through**

**Mathematical Literacy** Pasquale De Marco,2025-08-11 In Math for Justice Empowering Communities Through Mathematical Literacy we explore the transformative power of math as a force for social justice equity and liberation This book brings together the voices of scholars activists and practitioners who are using math to make a difference in the world Math has long been recognized as a tool for understanding the world around us from the intricate patterns of nature to the complexities of human society However math has also been used as a tool for oppression exclusion and discrimination Throughout history math has been used to justify racism sexism and other forms of discrimination Today math continues to be used to perpetuate inequality for example in standardized testing and algorithmic bias However math can also be a tool for liberation By empowering people with the mathematical skills they need to understand the world around them we can create a more just and equitable society Math can be used to expose injustice challenge discrimination and advocate for change It can be used to create new technologies that solve social problems and build more sustainable communities This book is divided into ten chapters each of which explores a different aspect of the relationship between math and social justice The chapters cover topics such as The legacy of discrimination in math education and the importance of creating inclusive classrooms The role of math in economic opportunity including math skills for a changing workforce and math and entrepreneurship The use of math in environmental justice such as math and climate change and math and sustainability The importance of math literacy for health equity including math and public health and math and clinical research The role of math in civic engagement such as math and voting rights and math and redistricting The use of math in social justice advocacy such as math and criminal justice reform and math and housing discrimination The portrayal of math in the media and popular culture such as math in the news and math in movies and television The impact of math on the future of work such as math and artificial intelligence and math and the gig economy The role of math in achieving global goals such as math and sustainable development and math and peacebuilding We hope that this book will inspire you to use your mathematical skills to make a positive impact in your community Whether you are a teacher a student a policymaker or simply a concerned citizen we believe that you can use math to make a difference If you like this book write a review

**Biomathematical Modeling** Olcay Akman,Christopher Hay-Jahans,2025-05-19 Welcome to the fascinating intersection of mathematics biology and ecology This book is intended primarily as a resource for teachers planning to teach their first introductory course on modeling in mathematical biology and or ecology This being said it can also be used by students preparing to embark on an independent studies project in one of these fields or by researchers unfamiliar with the methods



or software introduced who are seeking an accessible and quick introduction to one of the methods and or software presented here or by curious biologists ecologists or mathematicians who may be unfamiliar with the other side or maybe by the perpetual learner who is intrigued by the dynamics of living ecosystems For each of the above this book is designed to be an accessible introduction to the captivating landscape of biomathematics The approach used in this book takes advantage of technology in leading readers on a journey that bridges seemingly distinct fields through introductions to three methods and software platforms Compartmental models with Berkeley Madonna agent based models with NetLogo and cluster analysis through selforganizing maps using an R Shiny app This is not intended to be a textbook though it may be used as one nor is it a purely mathematics book or one purely about deeper aspects of biology or ecology It focuses on three selected ways in which the intersection of mathematics and biology and mathematics and ecology can be explored with the help of software Moreover the manner in which the content is presented makes it possible to use this book to help prepare for an introductory course at a wide range of levels depending on the discipline within which the course is taught and the mathematical prerequisites for the course There are four chapters the first of which presents the reader with a bit of background information followed by suggestions on how to get the most out of this book The three core chapters introduce the three previously mentioned methods and software in a manner envisioned to be accessible to most

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