

Mathematical Modelling of Environmental and Ecological Systems

Edited by

J.B. Shukla

T.G. Hallam

and

V. Capasso

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Mathematical Modelling Of Environmental And Ecological Systems

Mike J. Barnsley



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This volume contains a cross section of the papers presented at the International Symposium on Mathematical Modelling of Ecological Environmental and Biological Systems held in Kanpur India in August 1985 The choice of topics emphasizes many aspects of ecological and environmental matters including air and water pollution ecotoxicology resource management epidemiology and population and community ecology It is intended that this volume will focus international attention upon some problems in the ecological and environmental sciences that can be impacted by mathematical modelling and analysis

Mathematical Modelling of Environmental and Ecological Systems ENVIRONMENTAL AND BIOLOGICAL SYSTEMS INTERNATIONAL SIMPOSIUM ON MATHEMATICAL MODELLING OF ECOLOGICAL,1987 Air pollution Some aspects of mathematical modelling of atmospheric transport and chemistry Attenuation of air pollution by green belt Dispersion of a reactive air pollutant in a two layered environment Dispersion from a time dependent point source Application to methyl isocyanate leakage in Bhopal India Water pollution Taking advantage of topography in siting of discharges in rivers Analytical solution of 3 D unsteady state diffusion equation for a pollutant from a point source discharge in offshore region Population ecology Modelling survival in chemically stressed populations On the general structure of epidemic models Equilibria and oscillations in age structure population growth models Community ecology Young predation and time delays Uniform persistence and global stability in models involving mutualism I predator prey mutualistic systems Resource management Dynamic interactions between economic ecological and demographic variables Economic growth models Effects of logistic population and technology A dynamic predator prey model for the utilization of fishery resources a case of trawling in lake Kasumigaura *Mathematical Modelling of Environmental and Ecological Systems* J. B. Shukla,Thomas G. Hallam,Vincenzo Capasso,1987 This volume contains a cross section of the papers presented at the International Symposium on Mathematical Modelling of Ecological Environmental and Biological Systems held in Kanpur India in August 1985 The choice of topics emphasizes many aspects of ecological and environmental matters including air and water pollution ecotoxicology resource management epidemiology and population and community ecology It is intended that this volume will focus international attention upon some problems in the ecological and environmental sciences that can be impacted by mathematical modelling and analysis *Mathematical Modeling in Economics, Ecology and the Environment* N.V. Hritonenko,Yuri P.

Yatsenko,2013-04-17 The problems of interrelation between human economics and natural environment include scientific technical economic demographic social political and other aspects that are studied by scientists of many specialities One of the important aspects in scientific study of environmental and ecological problems is the development of mathematical and computer tools for rational management of economics and environment This book introduces a wide range of mathematical models in economics ecology and environmental sciences to a general mathematical audience with no in depth experience in

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XIII XIV Construction of Mathematical Models Mathematical Modeling in Economics, Ecology and the Environment Natali Hritonenko, Yuri Yatsenko, 2014-01-08 Updated to textbook form by popular demand this second edition discusses diverse mathematical models used in economics ecology and the environmental sciences with emphasis on control and optimization It is intended for graduate and upper undergraduate course use however applied mathematicians industry practitioners and a vast number of interdisciplinary academics will find the presentation highly useful Core topics of this text are Economic growth and technological development Population dynamics and human impact on the environment Resource extraction and scarcity Air and water contamination Rational management of the economy and environment Climate change and global dynamics The step by step approach taken is problem based and easy to follow The authors aptly demonstrate that the same models may be used to describe different economic and environmental processes and that similar investigation techniques are applicable to analyze various models Instructors will appreciate the substantial flexibility that this text allows while designing their own syllabus Chapters are essentially self contained and may be covered in full in part and in any order Appropriate one and two semester courses include but are not limited to Applied Mathematical Modeling Mathematical Methods in Economics and Environment Models of Biological Systems Applied Optimization Models and Environmental Models Prerequisites for the courses are Calculus and preferably Differential Equations

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Mathematical Modeling for Environmental Management Sajib Mandal,Md Haider Ali Biswas,Md Sirajul Islam,2025-01-16 This book investigates the potential impacts of global warming and rapid GHG emissions from artificial sources on coastal and marine ecosystems and introduces effective strategies to improve coastal and marine ecosystems by mitigating GHG emissions and concentrations Therefore this book develops four novel mathematical models to investigate the potential impacts on coastal and marine ecosystems and two novel optimal control problems to mitigate the potential impacts and improve coastal and marine ecosystems by reducing GHG emissions and concentrations All models are extensively validated by theoretical analysis and numerical simulations The main objective of this book is to be aware of the adverse effects of rapid GHG emissions and global warming on the environment and all life on earth to reveal how to maintain a healthy environment for all life and to save our beautiful planet from ecological deserts The book discloses applications of mathematical modeling for environmental management in environmental science and applied mathematics It provides new concepts and methods for scientists who study and develop mathematical modeling and environmental science and researchers who apply them to solve real life problems

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environmental systems function **Ecological Modelling and Engineering of Lakes and Wetlands** ,2014-04-04

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