Modelling with Differential Equations Unit Guide (School Mathematics Project 16-19)

School Mathematics Project

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Modelling With Differential Equations Unit Guide

Rachel S Tattersall

Modelling With Differential Equations Unit Guide:

Modelling with Differential Equations School Mathematics Project,1993-01-01 The 16 19 Mathematics materials have been developed with the aim of providing a sixth form course which carries forward the changes in mathematics teaching embodied in GCSE The main principles behind the course include involving students in developing mathematical ideas avoiding premature abstraction and over reliance on algorithms making appropriate use of technological advances such as graphics calculators or computers with a graph plotting facility and confronting and clearing up misunderstandings *A Biologist's Guide to Mathematical Modeling in Ecology and Evolution* Sarah P. Otto,Troy Day,2011-09-19 Thirty years ago biologists could get by with a rudimentary grasp of mathematics and modeling Not so today In seeking to answer fundamental questions about how biological systems function and change over time the modern biologist is as likely to rely on sophisticated mathematical and computer based models as traditional fieldwork In this book Sarah Otto and Troy Day provide biology students with the tools necessary to both interpret models and to build their own The book starts at an elementary level of mathematical modeling assuming that the reader has had high school mathematics and first year calculus Otto and Day then gradually build in depth and complexity from classic models in ecology and evolution to more intricate class structured and probabilistic models The authors provide primers with instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory Through examples they describe how models have been used to understand such topics as the spread of HIV chaos the age structure of a country speciation and extinction Ecologists and evolutionary biologists today need enough mathematical training to be able to assess the power and limits of biological models and to develop theories and models themselves This innovative book will be an indispensable guide to the world of mathematical models for the next generation of biologists A how to guide for developing new mathematical models in biology Provides step by step recipes for constructing and analyzing models Interesting biological applications Explores classical models in ecology and evolution Questions at the end of every chapter Primers cover important mathematical topics Exercises with answers Appendixes summarize useful rules Labs and advanced material available Modelling with Mathematics ,1985 **Whitaker's Books in Print** ,1998 Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004 An Introductory Guide to EC Competition Law and Practice Valentine Korah,1994 *Resources in education* ,1982-11 *Advances in Mechatronics and Control Engineering II* Krzysztof Galkowski,Yun Hae Kim,2013-10-15 Selected peer reviewed papers from the 2013 2nd International Conference on Mechatronics and Control Engineering ICMCE 2013 August 28 29 2013 Guangzhou China **British Universities' Guide to Graduate Study** ,1992 The Oryx Guide to Distance Learning William E. Burgess,1997 Provides informative descriptions of 4 200 media assisted courses offered by 420 accredited postsecondary institutions in the United States The courses are organized by state and then by institution Each entry includes institution address telephone and fax numbers geographic access area descriptions of the courses and delivery

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