

# mathematical modeling of diverse phenomena

james c. howard

# **Mathematical Modeling Of Diverse Phenomena**

National Aeronautics
Administration, James C. Howard

## **Mathematical Modeling Of Diverse Phenomena:**

Mathematical Modeling of Diverse Phenomena James C. Howard, 1979 Mathematical Modeling of Diverse **Phenomena** James Howard, 2014-04-15 This book is intended for those students engineers scientists and applied mathematicians who find it necessary to formulate models of diverse phenomena **Mathematical Modeling of Diverse Phenomena** James Carson Howard, 1979 Tensor calculus is applied to the formulation of mathematical models of diverse phenomena Aeronautics fluid dynamics and cosmology are among the areas of application The feasibility of combining tensor methods and computer capability to formulate problems is demonstrated. The techniques described are an attempt to simplify the formulation of mathematical models by reducing the modeling process to a series of routine operations which can be performed either manually or by computer Mathematical Modeling of Diverse Phenomena National Aeronautics Administration, James C. Howard, 2014-01-18 This book is intended for those students engineers scientists and applied mathematicians who find it necessary to formulate models of diverse phenomena To facilitate the formulation of such models some aspects of the tensor calculus will be introduced However no knowledge of tensors is assumed The chief aim of this calculus is the investigation of relations that remain valid in going from one coordinate system to another The invariance of tensor quantities with respect to coordinate transformations can be used to advantage in formulating mathematical models As a consequence of the geometrical simplification inherent in the tensor method the formulation of problems in curvilinear coordinate systems can be reduced to series of routine operations involving only summation and differentiation When conventional methods are used the form which the equations of mathematical physics assume depends on the coordinate system used to describe the problem being studied This dependence which is due to the practice of expressing vectors in terms of their physical components can be removed by the simple expedient of expressing all vectors in terms of their tensor components For the benefit of those who have access to digital computers equipped with formula manipulation compilers the convenience of computerized formulations will be demonstrated No programming experience is necessary and the few programming steps required will be explained as they occur The first chapter is concerned with those aspects of the tensor calculus that are considered necessary for an understanding of later chapters It is assumed that the reader has a knowledge of elementary vector analysis and matrix operations. The reader may encounter unfamiliar entities such as covariant and contravariant vectors and tensors and unfamiliar operations such as covariant differentiation It will be seen however that the only operations involved in applying these concepts to practical problems are summation in accordance with the summation convention and differentiation In using tensor methods to formulate mathematical models considerable insight is obtained and the striking similarity of all formulations of physical systems becomes apparent This is due to the fact that all such formulations evolve from a fundamental metric which is simply an expression for the square of the distance between two adjacent points on a surface Hence in addition to its utility the method advocated has a definite educational value The major

part of the book is devoted to applications using the theory given in the first chapter The applications are chosen to demonstrate the feasibility of combining tensor methods and computer capability to formulate problems of interest to students engineers and theoretical physicists Chapter 2 is devoted to aeronautical applications that culminate in the formulation of a mathematical model of an aeronautical system In Chapter 3 the equations of motion of a particle are formulated in tensor form The methods described in Chapter 4 can be used to formulate mathematical models involving fluid dynamics The tensor theory contained in Chapter 1 is required to formulate the cosmological models described in Chapter 5 The final chapter describes how the symbol manipulation language MACSYMA may be used to assist in the formulation of mathematical models The techniques described in this book represent an attempt to simplify the formulation of mathematical models by reducing the modeling process to a series of routine operations which can be performed either manually or by computer This attempt is part of a continuing effort in support of simulation experimentation in the Simulation Sciences Division An Introduction to Mathematical Modeling in Physiology, Cell Biology, and Immunology James Sneyd, 2002 In many respects biology is the new frontier for applied mathematicians This book demonstrates the important role mathematics plays in the study of some biological problems It introduces mathematicians to the biological sciences and provides enough mathematics for bioscientists to appreciate the utility of the modelling approach The book presents a number of diverse topics such as neurophysiology cell biology immunology and human genetics It examines how research is done what mathematics is used what the outstanding questions are and how to enter the field Also given is a brief historical survey of each topic putting current research into perspective The book is suitable for mathematicians and biologists interested in mathematical methods in biology NASA Scientific and Technical Publications ,1987 **Analysis and Simulation of Chaotic Systems** Frank C. Hoppensteadt, 2008-01-27 Beginning with realistic mathematical or verbal models of physical or biological phenomena the author derives tractable models for further mathematical analysis or computer simulations For the most part derivations are based on perturbation methods and the majority of the text is devoted to careful derivations of implicit function theorems the method of averaging and quasi static state approximation methods The duality between stability and perturbation is developed and used relying heavily on the concept of stability under persistent disturbances Relevant topics about linear systems nonlinear oscillations and stability methods for difference differential delay integro differential and ordinary and partial differential equations are developed throughout the book For the second edition the author has restructured the chapters placing special emphasis on introductory materials in Chapters 1 and 2 as distinct from presentation materials in Chapters 3 through 8 In addition more material on bifurcations from the point of view of canonical models sections on randomly perturbed systems and several new computer simulations have been added

Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences Giovanni Naldi, Lorenzo Pareschi, Giuseppe Toscani, 2010-08-12 Mathematical modeling using dynamical systems and partial differential equations is

now playing an increasing role in the understanding of complex multi scale phenomena Behavior in seemingly different areas such as sociology economics and the life sciences can be described by closely related models Using examples from financial markets and modern warfare to the flocking of birds and the swarming of bacteria the collected research in this volume demonstrates the common methodological approaches and tools for modeling and simulating collective behavior The topics presented point toward new and challenging frontiers of applied mathematics making the volume a useful reference text for applied mathematicians physicists biologists and economists involved in the modeling of socio economic systems

Scientific and Technical Aerospace Reports ,1980 Federal Evaluations, Contains an inventory of evaluation reports produced by and for selected Federal agencies including GAO evaluation reports that relate to the programs of those Federal Program Evaluations ,1981 Contains an inventory of evaluation reports produced by and for selected Federal agencies including GAO evaluation reports that relate to the programs of those agencies **Engineering Design and** Mathematical Modelling Nnamdi Nwulu, Mammo Muchie, 2020-12-17 Engineering Design and Mathematical Modelling Concepts and Applications consists of chapters that span the Engineering design and mathematical modelling domains Engineering design and mathematical modelling are key tools techniques in the Science Technology and Innovation spheres Whilst engineering design is concerned with the creation of functional innovative products and processes mathematical modelling seeks to utilize mathematical principles and concepts to describe and control real world phenomena Both of these can be useful tools for spurring and hastening progress in developing countries. They are also areas where Africa needs to skill up in order to build a technological base The chapters in this book cover the relevant research trends in the fields of both engineering design and mathematical modelling This book was originally published as a special issue of the African Journal of Science Technology Innovation and Development Algebra in the Early Grades James J. Kaput, David W. Carraher, Maria L. Blanton, 2017-09-25 This volume is the first to offer a comprehensive research based multi faceted look at issues in early algebra In recent years the National Council for Teachers of Mathematics has recommended that algebra become a strand flowing throughout the K 12 curriculum and the 2003 RAND Mathematics Study Panel has recommended that algebra be the initial topical choice for focused and coordinated research and development in K 12 mathematics This book provides a rationale for a stronger and more sustained approach to algebra in school as well as concrete examples of how algebraic reasoning may be developed in the early grades It is organized around three themes The Nature of Early Algebra Students Capacity for Algebraic Thinking Issues of Implementation Taking Early Algebra to the Classrooms The contributors to this landmark volume have been at the forefront of an effort to integrate algebra into the existing early grades mathematics curriculum They include scholars who have been developing the conceptual foundations for such changes as well as researchers and developers who have led empirical investigations in school settings Algebra in the Early Grades aims to bridge the worlds of research practice design and theory for educators researchers students policy makers

and curriculum developers in mathematics education **Mastering Discrete Mathematics** Gautami Devar, 2025-02-20 Mastering Discrete Mathematics is a comprehensive and accessible resource designed to provide readers with a thorough understanding of the fundamental concepts techniques and applications of discrete mathematics Written for students educators researchers and practitioners we offer a detailed overview of discrete mathematics a field that deals with countable distinct objects and structures We cover a wide range of topics including sets logic proof techniques combinatorics graph theory recurrence relations and generating functions Our clear and concise language makes complex mathematical concepts accessible to readers with varying levels of mathematical background Each concept is illustrated with examples and applications to demonstrate its relevance and practical significance in various domains Emphasizing the practical applications of discrete mathematics we explore its use in computer science cryptography optimization network theory and other scientific disciplines Each chapter includes exercises and problems to reinforce learning test understanding and encourage further exploration of the material Additional resources including supplementary materials interactive exercises and solutions to selected problems are available online to complement the book and facilitate self study and review Whether you are a student looking to gain a solid foundation in discrete mathematics an educator seeking to enhance your teaching materials or a practitioner interested in applying discrete mathematics techniques to real world problems Mastering Discrete Mathematics offers valuable insights and resources to support your learning and exploration of this fascinating field

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advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science 

Theory of Physical and Technical Measurement J. Piotrowski,1992-03-25 A complete theory of measurement from the principles of establishing the reality images to measurement procedures is presented in this book A precise mathematical model of errors is presented with the use of various applications to interpret measurement results Axioms are formulated which provide a deduction theory of measurement The variety of problems addressed by modern science results in a diversity of models of physical and metrological phenomena and leads to the view that there is not now and may never be a uniform theory of measurement There is a need however to establish a foundation common to all measurements and studies and this is the author s main aim allied to attempts to create a universal theory of measurement The purpose of measurement is discussed Many practical examples illustrating the methodology of modelling calibration and the analysis of the results of measurement are reviewed The book is designed for physicists analytical and physical chemists and engineers involved with the work of metrology A knowledge of physics probability and statistics and the principles of metrology is a prerequisite for understanding this work

Advanced Computational Methods in Mechanical and Materials Engineering Ashwani Kumar, Yatika Gori, Nitesh Dutt, Yogesh Kumar Singla, Ambrish Maurya, 2021-11-23 This book provides in depth knowledge to solve engineering geometrical mathematical and scientific problems with the help of advanced computational methods with a focus on mechanical and materials engineering Divided into three subsections covering design and fluids thermal engineering and materials engineering each chapter includes exhaustive literature review along with thorough analysis and future research scope Major topics covered pertains to computational fluid dynamics mechanical performance design and fabrication including wide range of applications in industries as automotive aviation electronics nuclear and so forth Covers computational methods in design and fluid dynamics with a focus on computational fluid dynamics Explains advanced material applications and manufacturing in labs using novel alloys and introduces properties in material Discusses fabrication of graphene reinforced magnesium metal matrix for orthopedic applications Illustrates simulation and optimization gear transmission heat sink and heat exchangers application Provides unique problem solution approach including solutions methodology experimental setup and results validation This book is aimed at researchers graduate students in mechanical engineering computer fluid dynamics fluid mechanics computer modeling machine parts and mechatronics Introduction To Differential Equations, An: Stochastic Modeling, Methods And Analysis (Volume 2) Anilchandra G Ladde, Gangaram S Ladde, 2013-01-11 Volume 1 Deterministic Modeling Methods and Analysis For more than half a century stochastic calculus and stochastic differential equations have played a major role in analyzing the dynamic

phenomena in the biological and physical sciences as well as engineering The advancement of knowledge in stochastic differential equations is spreading rapidly across the graduate and postgraduate programs in universities around the globe This will be the first available book that can be used in any undergraduate graduate stochastic modeling applied mathematics courses and that can be used by an interdisciplinary researcher with a minimal academic background An Introduction to Differential Equations Volume 2 is a stochastic version of Volume 1 An Introduction to Differential Equations Deterministic Modeling Methods and Analysis Both books have a similar design but naturally differ by calculi Again both volumes use an innovative style in the presentation of the topics methods and concepts with adequate preparation in deterministic Calculus The Application of Mathematics to the Sciences of Nature Claudio Pellegrini, Paola Cerrai, Paolo Freguglia, 2012-12-06 The historical and epistemological reflection on the applications of mathematical techniques to the Sciences of Nature physics biology chemistry and geology today generates attention and interest because of the increasing use of mathematical models in all sciences and their high level of sophistication. The goal of the meeting and the papers collected in this proceedings volume is to give physicists biologists mathematicians and historians of science the opportunity to share information on their work and reflect on the and mathematical models are used in the natural sciences today and in way mathematics the past The program of the workshop combines the experience of those working on current scientific research in many different fields with the historical analysis of previous results We hope that some novel interdisciplinary philosophical and epistemological considerations will follow from the two aspects of the workshop the historical and the scientific This proceedings includes papers presented at the meeting and some of the results of the discussions that took place during the workshop We wish to express our gratitude to Sergio Monteiro for all his work which has been essential for the successful publication of these proceedings We also want to thank the editors of Kluwer AcademidPlenum Publishers for their patience and constant help and in particular Beth Kuhne and Roberta Klarreich Our thanks to the fallowing institutions Amministrazione Comunale di Arcidosso Comunita Montana del Monte Amiata Center for the History of Physics UCLA Centre F

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