

Mathematical Modeling of Diverse Phenomena



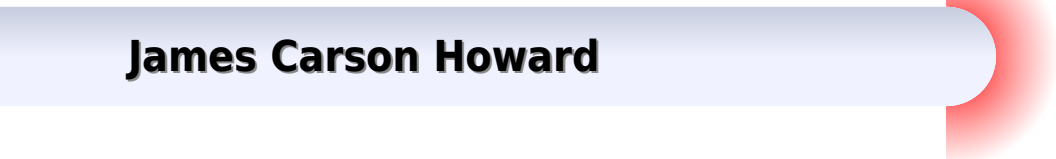
$$dW = g_{ij} F^i dx^j \quad F^i = m \left(\frac{d^2 x^i}{dt^2} + \left\{ \begin{matrix} i \\ jk \end{matrix} \right\} \frac{dx^j}{dt} \frac{dx^k}{dt} \right)$$



James C. Howard

Mathematical Modeling Of Diverse Phenomena

James Carson 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.

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.

NASA Scientific and Technical Publications, 1987. **Scientific and Technical Aerospace Reports**, 1980. **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. **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 agencies.

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