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Differential Equations and Their Applications

by Stanley J. Farlow

This introductory book is designed for the one- or two-semester advanced undergraduate course in differential equations. The material is organized so that the chapters can be considered separately if desired. Each chapter contains a large number of worked examples. The techniques are first discussed before they are applied to problems of increasing intractability. The most unusual feature of the text is its emphasis on the practical application of differential equations. Applications are presented before the methods of solution are taught. Contraction Principle is used to prove the smoothness of functions that are obtained as fixed points of contractions. The ideas introduced in this section can be extended to infinite dimensions.

First, and foremost, it is a rigorous study of ordinary differential equations and can be fully understood by anyone who has completed one year of calculus. However, in addition to the traditional applications, it also contains many exciting “real life” problems. These applications are completely self contained. First, the problem is solved in outline form, and then one or more differential equations are derived as a model for this problem. These equations are then solved and the results are used to get a solution for the original problem.

Differential Equations and Their Applications

by I. M. intervene

This book presents a variety of techniques for solving ordinary differential equations numerically and formulates a method of evaluating. Focusing on the modeling of real world phenomena, this book is a landmark title in the continuous move from integer to non-integer in mathematics: from integer numbers to real numbers, from factorials to the gamma function, from discrete convolutions to fractional convolutions, and so forth. The book also covers some recent developments within various fields of science and technology, and probabilists, engineers in control and communications, and information scientists, physicists, and economists.

Differential Equations and Their Applications

by Harendra Singh

Mathematical models are used to convert real-life problems using mathematical concepts and language. These models are governed by differential techniques such as the method of optimal control, the ‘Four Step Scheme’, and the method of continuation are presented in full. Related topics such as backward stochastic PDEs and many applications of FBSDEs are also discussed in detail. The immense success of this course is due primarily to two factors. First, and foremost, the material is presented in a manner which is rigorous enough for our mathematics and applied mathematics majors, but yet intuitive and practical.

Differential Equations and Their Applications

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Differential Equations and Their Applications

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by Matiur Rahman

Full text of this book is available free of charge under the Open Access license. This book presents a variety of techniques for solving ordinary differential equations numerically and formulates a method of evaluating. Focusing on the modeling of real world phenomena, this book is a landmark title in the continuous move from integer to non-integer in mathematics: from integer numbers to real numbers, from factorials to the gamma function, from discrete convolutions to fractional convolutions, and so forth. The book also covers some recent developments within various fields of science and technology, and probabilists, engineers in control and communications, and information scientists, physicists, and economists.

Differential Equations and Their Applications

by Mircea Soare

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Functional Differential Equations: Advances and Applications presents the needed tools and topics to study the various classes of functional differential equations and is primarily concerned with the existence, uniqueness, and estimates of solutions to specific problems. The book focuses on the general theory of functional differential equations, providing the requisite mathematical background, and details the qualitative behavior of solutions to functional differential equations. The book emphasizes the applications of stability, particularly for ordinary differential equations. It is designed to provide a comprehensive guide to the theory of functional differential equations and applications for those working in industry or academia.

The book covers a wide range of topics, including stability theory, periodic solutions, and almost periodic solutions. It also includes applications to various fields such as control theory, economics, and biology. The book is suitable for graduate students, researchers, and practitioners in the field of applied mathematics, particularly those interested in functional differential equations and their applications.