The book was found

A Textbook On Ordinary Differential Equations (UNITEXT)

Shair Ahmad
Antonio Ambrosetti

A Textbook on Ordinary Differential Equations

UNITEXT

Second Edition

Springer
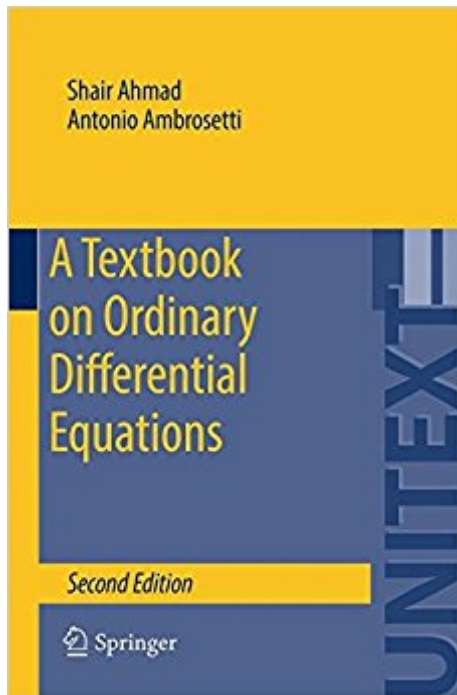
Synopsis

This book offers readers a primer on the theory and applications of Ordinary Differential Equations. The style used is simple, yet thorough and rigorous. Each chapter ends with a broad set of exercises that range from the routine to the more challenging and thought-provoking. Solutions to selected exercises can be found at the end of the book. The book contains many interesting examples on topics such as electric circuits, the pendulum equation, the logistic equation, the Lotka-Volterra system, the Laplace Transform, etc., which introduce students to a number of interesting aspects of the theory and applications. The work is mainly intended for students of Mathematics, Physics, Engineering, Computer Science and other areas of the natural and social sciences that use ordinary differential equations, and who have a firm grasp of Calculus and a minimal understanding of the basic concepts used in Linear Algebra. It also studies a few more advanced topics, such as Stability Theory and Boundary Value Problems, which may be suitable for more advanced undergraduate or first-year graduate students. The second edition has been revised to correct minor errata, and features a number of carefully selected new exercises, together with more detailed explanations of some of the topics.A complete Solutions Manual, containing solutions to all the exercises published in the book, is available. Instructors who wish to adopt the book may request the manual by writing directly to one of the authors.

Book Information

Series: UNITEXT (Book 88)

Paperback: 331 pages

Publisher: Springer; 2nd ed. 2015 edition (May 30, 2015)

Language: English

ISBN-10: 3319164074

ISBN-13: 978-3319164076

Product Dimensions: 6.1 x 0.6 x 9.1 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #580,525 in Books (See Top 100 in Books)   #76 in Books > Science & Math > Mathematics > Number Systems   #336 in Books > Science & Math > Mathematics > Applied > Differential Equations   #6811 in Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

â€œThis is the second edition of an undergraduate introduction to ordinary differential equations suitable for mathematicians and engineers. â€¦ The style is clean and concise with many examples and exercises. Basic results are proven, more involved results are only stated. The new edition features some new exercises and better explanations at various points. So if you are looking for an application oriented introduction which is still concise and rigorous, this book might be just right for you.â€• (G. Teschl, Monatshefte fÃ¼r Mathematik, 2016)

A Textbook on Ordinary Differential Equations (UNITEXT) Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Student Solutions Manual to accompany Boyce Elementary Differential Equations 10e & Elementary Differential Equations with Boundary Value Problems 10e [Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012) [Paperback] Student's Solutions Manual for Fundamentals of Differential Equations 8e and Fundamentals of Differential Equations and Boundary Value Problems 6e Numerical Partial Differential Equations: Conservation Laws and Elliptic Equations (Texts in Applied Mathematics) (v. 33) Partial Differential Equations of Mathematical Physics and Integral Equations (Dover Books on Mathematics) Ordinary Differential Equations (Dover Books on Mathematics) Ordinary Differential Equations: From Calculus to Dynamical Systems (Maa Textbooks) Lectures, Problems and Solutions for Ordinary Differential Equations Finite Difference Methods for Ordinary and Partial Differential Equations: Steady-State and Time-Dependent Problems (Classics in Applied Mathematics) From Special Relativity to Feynman Diagrams: A Course in Theoretical Particle Physics for Beginners (UNITEXT for Physics) Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations: Improve Your Math Fluency Series Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations (Improve Your Math Fluency Series 12) Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGEâ€™S EQUATIONS, HAMILTONâ€™S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) How Einstein gives Dirac, Klein-Gordon and

Schrödinger: Deriving the Schrödinger, Dirac and Klein-Gordon Equations from the Einstein-Field-Equations via an Intelligent Zero Numerical Partial Differential Equations in Finance Explained: An Introduction to Computational Finance (Financial Engineering Explained)