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Digital Fundamentals Springer  
Written from the perspective of the applied mathematician, the latest edition of this bestselling book focuses on the theory and practical applications of Differential Equations to engineering and the sciences. Emphasis is placed on the methods of solution, analysis, and approximation. Use of technology, illustrations, and problem sets help readers develop an intuitive understanding of the material. Historical footnotes trace the development of the discipline and identify outstanding individual contributions. This book builds the foundation for anyone who needs to learn differential equations and then progress to more advanced studies.

Fundamentals of Differential Equations John Wiley & Sons  
Skillfully organized introductory text examines origin of differential equations, then defines basic terms and outlines the general solution of a differential equation. Subsequent sections deal with integrating factors; dilution and accretion problems; linearization of first order systems; Laplace Transforms; Newton's Interpolation Formulas, more.

### **Introduction to Differential Equations**

Schaum's Outline Series

Introductory MEMS: Fabrication and Applications is a practical introduction to MEMS for advanced undergraduate and graduate students. Part I introduces the student to the most commonly used MEMS fabrication techniques as well as the MEMS devices produced using these techniques. Part II focuses on MEMS transducers: principles of operation, modeling from first principles, and a detailed look at commercialized MEMS

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devices, in addition to microfluidics. Multiple field-tested laboratory exercises are included, designed to facilitate student learning about the fundamentals of microfabrication processes.

References, suggested reading, review questions, and homework problems are provided at the close of each chapter.

Introductory MEMS: Fabrication and Applications is an excellent introduction to the subject, with a tested pedagogical structure and an accessible writing style suitable for students at an advanced undergraduate level across academic disciplines.

### Introduction to Advanced Mathematics

HEINLE & HEINLE

Provides undergraduates and practicing engineers with an understanding of the theory and applications behind the fundamental concepts of machine elements. This text includes examples and homework

problems designed to test student understanding and build their skills in analysis and design.

### **An Introduction to Ordinary Differential Equations** Pearson

This title is part of the Pearson Modern Classics series. Pearson Modern Classics are acclaimed titles at a value price. Please visit [www.pearsonhighered.com/math-classics-series](http://www.pearsonhighered.com/math-classics-series) for a complete list of titles. This is the best seller in this market. It provides a comprehensive introduction to complex variable theory and its applications to current engineering problems. It is designed to make the

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fundamentals of the subject more easily accessible to students who have little inclination to wade through the rigors of the axiomatic approach. Modeled after standard calculus books--both in level of exposition and layout--it incorporates physical applications throughout the presentation, so that the mathematical methodology appears less sterile to engineering students.

**Stability of Linear Delay  
Differential Equations** Cambridge  
University Press

This work aims to help the beginning student to understand the relationship between

mathematics and physical problems, emphasizing examples and problem-solving.

Differential Equations with  
Discontinuous Coefficients  
Cengage Learning

This package (book + CD-ROM) has been replaced by the ISBN 0321388410 (which consists of the book alone). The material that was on the CD-ROM is available for download at <http://aw-bc.com/nss>

Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern

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applications in science and engineering. Available in two versions, these flexible texts offer the instructor many choices in syllabus design, course emphasis (theory, methodology, applications, and numerical methods), and in using commercially available computer software.

Fundamentals of Differential Equations, Seventh Edition is suitable for a one-semester sophomore- or junior-level course. Fundamentals of Differential Equations with Boundary Value Problems, Fifth Edition, contains enough material for a two-semester course that covers and builds on boundary value problems. The Boundary Value Problems version consists of the main text plus three additional chapters (Eigenvalue Problems and Sturm-Liouville Equations; Stability of Autonomous Systems; and Existence and Uniqueness Theory).

Differential Equations for Engineers Pearson  
Incorporating an innovative modeling approach, this book for a one-semester differential equations course emphasizes conceptual

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understanding to help users relate information taught in the classroom to real-world experiences. Certain models reappear throughout the book as running themes to synthesize different concepts from multiple angles, and a dynamical systems focus emphasizes predicting the long-term behavior of these recurring models. Users will discover how to identify and harness the mathematics they will use in their careers, and apply it effectively outside the classroom. Important Notice: Media content

referenced within the product description or the product text may not be available in the ebook version.

**A First Course in Differential Equations with Modeling**

**Applications** Courier Corporation  
This book is designed to supplement standard texts and teaching material in the areas of differential equations in engineering such as in Electrical, Mechanical and Biomedical engineering. Emphasis is placed on the Boundary Value Problems that are often met in these fields. This keeps the the spectrum of the book rather focussed. The book has basically emerged from the need in the authors lectures on "Advanced

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Numerical Methods in Biomedical Engineering" at Yeditepe University and it is aimed to assist the students in solving general and application specific problems in Science and Engineering at upper-undergraduate and graduate level. Majority of the problems given in this book are self-contained and have varying levels of difficulty to encourage the student. Problems that deal with MATLAB simulations are particularly intended to guide the student to understand the nature and demystify theoretical aspects of these problems. Relevant references are included at the end of each chapter. Here one will also find large number of software that supplements this book in the form of MATLAB script (.m files). The name of the files used for the solution of a problem are indicated at the end of each corresponding problem statement. There are also some exercises left to students as homework assignments in the book. An outstanding feature of the book is the large number and variety of the solved problems that are included in it. Some of these problems can be found relatively simple, while others are more challenging and used for research projects. All solutions to the problems and script files included in the book have been tested using recent MATLAB software. The features and the content of this book will be most useful to the students studying in Engineering fields, at

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different levels of their education course emphasis (theory, (upper undergraduate-graduate). methodology, applications, and Heinle & Heinle's Complete Guide to the TOEFL Test Cambridge University Press numerical methods), and in using commercially available computer software.

This text is in a flexible one-semester text that spans a variety of topics in the basic theory as well as applications of differential equations.

*Differential Equations with Boundary-value Problems*  
Springer

This text presents the basic theory of differential equations and offers a variety of modern applications in science and engineering. It offers the instructor many choices in syllabus design,

**Differential Equations and Boundary Value Problems**

Pearson Education India

The book represents a basic support for a master course in electromagnetism oriented to numerical simulation. The main goal of the book is that the reader knows the boundary-value problems of partial differential equations that should be solved in order to perform computer simulation



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of electromagnetic processes. Moreover it includes a part devoted to electric circuit theory based on ordinary differential equations. The book is mainly oriented to electric engineering applications, going from the general to the specific, namely, from the full Maxwell's equations to the particular cases of electrostatics, direct current, magnetostatics and eddy currents models. Apart from standard exercises related to analytical calculus, the book includes

some others oriented to real-life applications solved with MaxFEM free simulation software.

**Fundamentals of Differential Equations** Pearson Scott Foresman

This traditional text is intended for mainstream one- or two-semester differential equations courses taken by undergraduates majoring in engineering, mathematics, and the sciences. Written by two of the world's leading authorities on differential equations, Simmons/Krantz provides a cogent and

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accessible introduction to ordinary differential equations written in classical style. Its rich variety of modern applications in engineering, physics, and the applied sciences illuminate the concepts and techniques that students will use through practice to solve real-life problems in their careers. This text is part of the Walter Rudin Student Series in Advanced Mathematics.

**Elementary Applied Partial Differential Equations** JHU Press  
Now enhanced with the innovative DE Tools CD-ROM and the iLrn teaching and learning system, this

proven text explains the "how" behind the material and strikes a balance between the analytical, qualitative, and quantitative approaches to the study of differential equations. This accessible text speaks to students through a wealth of pedagogical aids, including an abundance of examples, explanations, "Remarks" boxes, definitions, and group projects. This book was written with the student's understanding firmly in mind. Using a straightforward, readable, and helpful style, this book provides a thorough treatment of boundary-value problems and partial differential equations.

**Differential Equations** Carson-Dellosa Publishing

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For one-semester sophomore- or junior-level courses in Differential Equations. An introduction to the basic theory and applications of differential equations Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern applications in science and engineering. This flexible text allows instructors to adapt to various course emphases (theory, methodology, applications, and numerical methods) and to use commercially available computer software. For the first time, MyLab(TM) Math is available for this text, providing online homework with immediate feedback, the complete eText, and more. Note that a longer version of this text, entitled Fundamentals of Differential Equations and Boundary Value Problems, 7th Edition , contains enough material for a two-semester course. This longer text consists of the main text plus three additional chapters (Eigenvalue Problems and Sturm--Liouville Equations; Stability of Autonomous Systems; and Existence and Uniqueness Theory). Also available with MyLab Math MyLab(TM) Math is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a

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personalized study plan that helps them absorb course material and understand difficult concepts. Note: You are purchasing a standalone product; MyLab does not come packaged with this content. Students, if interested in purchasing this title with MyLab, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and MyLab, search for: 0134768744 / 9780134768748 Fundamentals of Differential Equations plus MyLab Math with Pearson eText -- Title-Specific Access Card Package, 9/e Package consists of: 0134764838 / 9780134764832 MyLab Math with Pearson eText -- Standalone Access Card -- for Fundamentals of Differential Equations 0321977068 / 9780321977069 Fundamentals of Differential Equations Calculus McGraw-Hill Science, Engineering & Mathematics Answer Key/Tapescript to accompany HEINLE'S COMPLETE GUIDE TO THE TOEFL TEST. **Fundamentals of Differential Equations** Springer "Undergraduate linear algebra is both beautiful and replete with real world applications and connections to the rest of mathematics. The purpose of the present volume is to enrich the understanding of linear algebra for a wide audience by placing a

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broad collection of short items in the hands of teachers, students, and others who enjoy the subject. Because undergraduate linear algebra is so fundamental to the mathematics curriculum, it is often taught by non-specialists and specialists alike. "Linear Algebra Gems" offers to all teachers ways in which core ideas can be presented to their students. Most articles are accessible to those with modest preparation in linear algebra, including beginning students. However, many items will also contain pleasant surprises even to those well-versed in the subject. The editors have combed through the literature, and have selected from original submissions, to find expository articles and problems to enrich the reader's understanding. The seventy-three articles selected are organized into nine sections, with over 120 problems grouped into subject categories as a tenth section. Contributors to the volume include experts in the field and long-time teachers of linear algebra. The book was prepared as part of a broad contract with the National Science Foundation to improve undergraduate linear algebra education. The editors hope that many readers will find enjoyment from this collection."--Amazon.com viewed Oct. 26, 2020.

*Mathematical Models and Numerical Simulation in Electromagnetism* Cambridge

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University Press  
Abstract Algebra: An Introduction is set apart by its thematic development and organization. The chapters are organized around two themes: arithmetic and congruence. Each theme is developed first for the integers, then for polynomials, and finally for rings and groups. This enables students to see where many abstract concepts come from, why they are important, and how they relate to one another. New to this edition is a groups first option that

enables those who prefer to cover groups before rings to do so easily. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Ordinary Differential Equations, with Applications

Springer

This textbook is designed with the needs of today's student in mind. It is the ideal textbook for a first course in elementary differential equations for future engineers and scientists, including mathematicians. This book is

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accessible to anyone who has a basic knowledge of precalculus algebra and differential and integral calculus. Its carefully crafted text adopts a concise, simple, no-frills approach to differential equations, which helps students acquire a solid experience in many classical solution techniques. With a lighter accent on the physical interpretation of the results, a more manageable page count than comparable texts, a highly readable style, and over 1000 exercises designed to be solved without a calculating device, this book emphasizes the understanding and practice of essential topics in a succinct yet fully rigorous fashion. Apart from several other enhancements, the second edition contains one new chapter on numerical methods of solution. The book formally splits the "pure" and "applied" parts of the contents by placing the discussion of selected mathematical models in separate chapters. At the end of most of the 246 worked examples, the author provides the commands in Mathematica® for verifying the results. The book can be used independently by the average student to learn the fundamentals of the subject,

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while those interested in quantitative techniques such as pursuing more advanced material regressive analysis and eco- can regard it as an easily taken relation, lagrangian calculus, etc. first step on the way to the next level. Additionally, practitioners who encounter differential equations in their professional work will find this text to be a convenient source of reference.

### **Spherical Radial Basis Functions, Theory and Applications**

Mathematical Association of  
America (MAA)

Managerial economics is a branch of economics that applies micro-economic analysis to specific business decisions. Bridging economic theory and economics in practice, it draws heavily from