

## A First Course In Differential Equations With Modeling Applications 10th Edition

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This course will teach everything that is usually taught in the first two semesters of a university/college course in differential equations. The topics we will consider in this course are. First Order Differential Equations; Linear Equations of Higher Order; Laplace Transform Methods; Linear Systems of Differential Equations ; Power Series Methods

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Suppose  $y_1, y_2, \dots, y_k$  are  $k$  linearly independent ...

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time during the course. A standard 3-credit semester course can be based on Chapter 1 through most of Chapter 4. A 4-credit course can include topics from Chapter 5 on nonlinear systems. This edition of the text incorporates many changes. Some topics have been rewritten and rearranged. I made the effort to

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Course Description. Differential Equations are the language in which the laws of nature are expressed. Understanding properties of solutions of differential equations is fundamental to much of contemporary science and engineering. Ordinary differential equations (ODE's) deal with functions of one variable, which can often be thought of as time.

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The prerequisite is “a good course in elementary calculus”, including convergence and uniform convergence of sequences and series, the  $\epsilon$ - $\delta$  definition of a limit, improper integrals, elementary properties of the solutions of ordinary differential equations, partial differentiation, chain rule, gradient, divergence and the divergence theorem.

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The third edition of this concise, popular textbook on elementary differential equations gives instructors an alternative to the many voluminous texts on the market. It presents a thorough treatment of the standard topics in an accessible, easy-to-read, format. The overarching perspective of the text conveys that differential equations are about applications. This book illuminates the mathematical theory in the text with a wide variety of applications that will appeal to students in physics, engineering, the biosciences, economics and mathematics. Instructors are likely to find that the first four or five chapters are suitable for a first course in the subject. This edition contains a healthy increase over earlier editions in the number of worked examples and exercises, particularly those routine in nature. Two appendices include a review with practice problems, and a MATLAB® supplement that gives basic codes and commands for solving differential equations. MATLAB® is not required; students are encouraged to utilize available software to plot many of their solutions. Solutions to even-numbered problems are available on [springer.com](http://springer.com).

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This manual contains fully worked-out solutions to select odd-numbered exercises in the text, giving students a way to check their answers and ensure that they took the correct steps to arrive at an answer.

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lead the reader to a theoretical understanding of the subject without neglecting its practical aspects. The outcome is a textbook that is mathematically honest and rigorous and provides its target audience with a wide range of skills in both ordinary and partial differential equations." --Book Jacket.

Emphasizing a practical approach for engineers and scientists, *A First Course in Differential Equations, Modeling, and Simulation* avoids overly theoretical explanations and shows readers how differential equations arise from applying basic physical principles and experimental observations to engineering systems. It also covers classical methods for obtaining the analytical solution of differential equations and Laplace transforms. In addition, the authors discuss how these equations describe mathematical systems and how to use software to solve sets of equations where analytical solutions cannot be obtained. Using simple physics, the book introduces dynamic modeling, the definition of differential equations, two simple methods for obtaining their analytical solution, and a method to follow when modeling. It then presents classical methods for solving differential equations, discusses the engineering importance of the roots of a characteristic equation, and describes the response of first- and second-order differential equations. A study of the Laplace transform method follows with explanations of the transfer function and the power of Laplace transform for obtaining the analytical solution of coupled differential equations. The next several chapters present the modeling of translational and rotational mechanical systems, fluid systems, thermal systems, and electrical systems. The final chapter explores many simulation examples using a typical software package for the solution of the models developed in previous chapters. Providing the necessary tools to apply differential equations in engineering and science, this text helps readers understand differential equations, their meaning, and their analytical and computer solutions. It illustrates how and where differential equations develop, how they describe engineering systems, how to obtain the analytical solution, and how to use software to simulate the systems.

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