Introductory Differential Equations. Edition No. 4

Description: This text is for courses that are typically called (Introductory) Differential Equations, (Introductory) Partial Differential Equations, Applied Mathematics, and Fourier Series. Differential Equations is a text that follows a traditional approach and is appropriate for a first course in ordinary differential equations (including Laplace transforms) and a second course in Fourier series and boundary value problems.

Some schools might prefer to move the Laplace transform material to the second course, which is why we have placed the chapter on Laplace transforms in its location in the text. Ancillaries like Differential Equations with Mathematica and/or Differential Equations with Maple would be recommended and/or required ancillaries.

Because many students need a lot of pencil-and-paper practice to master the essential concepts, the exercise sets are particularly comprehensive with a wide range of exercises ranging from straightforward to challenging. Many different majors will require differential equations and applied mathematics, so there should be a lot of interest in an intro-level text like this. The accessible writing style will be good for non-math students, as well as for undergrad classes.

- Provides the foundations to assist students in learning how to read and understand the subject, but also helps students in learning how to read technical material in more advanced texts as they progress through their studies.
- Exercise sets are particularly comprehensive with a wide range of exercises ranging from straightforward to challenging.
- Includes new applications and extended projects made relevant to "everyday life" through the use of examples in a broad range of contexts.

Accessible approach with applied examples and will be good for non-math students, as well as for undergrad classes.

Contents:
1. Introduction to Differential Equations
2. First-Order Equations
3. Applications of First-Order Differential Equations
4. Higher Order Equations
5. Applications of Higher-Order Differential Equations
6. Systems of Differential Equations
7. Applications of Systems of Ordinary Differential Equations
8. Introduction to the Laplace Transform
9. Eigenvalue Problems and Fourier Series
10. Partial Differential Equations

ANSWERS TO SELECTED EXERCISES

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