



Differential Equations: A Modeling Perspective

By Robert L. Borrelli, Courtney S. Coleman



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This effective and practical new edition continues to focus on differential equations as a powerful tool in constructing mathematical models for the physical world. It emphasizes modeling and visualization of solutions throughout. Each chapter introduces a model and then goes on to look at solutions of the differential equations involved using an integrated analytical, numerical, and qualitative approach. The authors present the material in a way that's clear and understandable to students at all levels. Throughout the text the authors convey their enthusiasm and excitement for the study of ODEs.



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Editorial Review

From the Back Cover

Experience the power of mathematical modeling.

Borrelli and Coleman's DIFFERENTIAL EQUATIONS: A MODELING PERSPECTIVE focuses on differential equations as a powerful tool in constructing mathematical models for the physical world.

Right from the start, the book provides a gentle introduction to modeling in Chapter 1. This chapter gathers the elementary principles of modeling in one place and uses simple examples. From there, you'll explore specific models and examine solutions of the differential equations involved using an integrated analytical, numerical, and qualitative approach.

Build and solve your own ODEs with the ultimate ODE power tool!

This edition includes a CD containing *ODE Architect*—a prize-winning, state-of-the-art NSF-sponsored learning software package, which is Windows-compatible. A solver tool allows you to build your own models with ODEs and study them in a truly interactive point-and-click environment. The *Architect* includes an interactive library of over one hundred model differential systems with graphs of solutions. The *Architect* also has 14 interactive multimedia modules, which provide a range of models and phenomena, from a golf game to chaos.

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John Moreno:

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