



Introductory Differential Equations: with Boundary Value Problems

Martha L. Abell, James P. Braselton

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This text is for courses that are typically called (Introductory) Differential Equations, (Introductory) Partial Differential Equations, Applied Mathematics, Fourier Series and Boundary Value Problems. The text is appropriate for two semester courses: the first typically emphasizes ordinary differential equations and their applications while the second emphasizes special techniques (like Laplace transforms) and partial differential equations. The text follows a "traditional" curriculum and takes the "traditional" (rather than "dynamical systems") approach.

Introductory 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. Note that 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 depending on the school, course, or instructor.

*Technology Icons

These icons highlight text that is intended to alert students that technology may be used intelligently to solve a problem, encouraging logical thinking and application

* Think About It Icons and Examples

Examples that end in a question encourage students to think critically about what to do next, whether it is to use technology or focus on a graph to determine an outcome

*Differential Equations at Work

These are projects requiring students to think critically by having students answer questions based on different conditions, thus engaging students

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