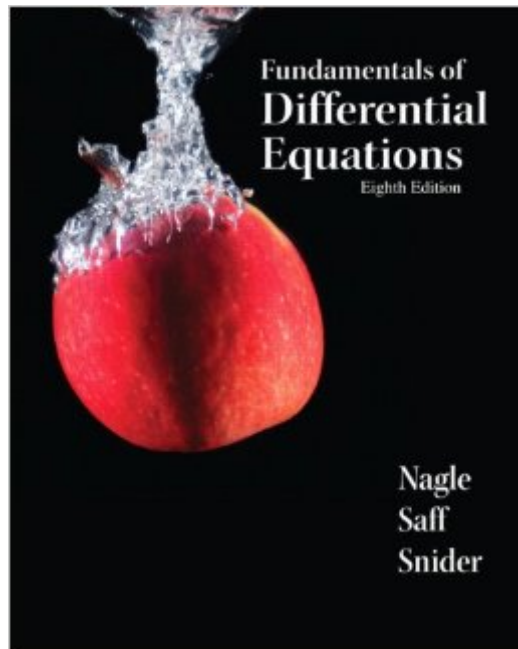


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Synopsis

Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern 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, Eighth Edition is suitable for a one-semester sophomore- or junior-level course. Fundamentals of Differential Equations with Boundary Value Problems, A Sixth 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).

Book Information

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Customer Reviews

I just finished a class that used this textbook, and I had no real problems with it. I've seen some really poor reviews on this book which I think are unwarranted. This may not be the best book around, but it is certainly not the worst. Put simply, this is an average textbook. It is neither outstanding, nor terrible. I did find the wording awkward in places. For example, Theorem 1 regarding existence and uniqueness is stated

as,===== "Given the initial value problem, $dy/dx = f(x,y)$, $y(x_0) = y_0$, assume that f and the partial derivative of f with

respect to y are continuous functions in a rectangle $R = \{ (x,y): a < x < b, c < y$

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