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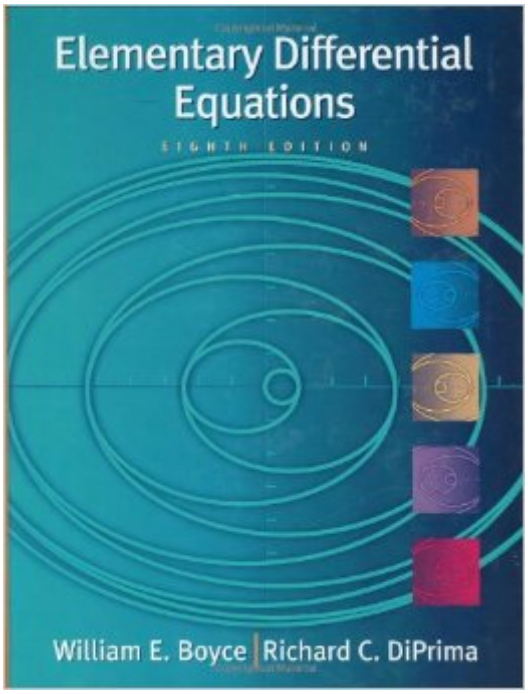
Elementary Differential Equations, With ODE Architect CD



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Synopsis

This revision of Boyce & DiPrima's text maintains its classic strengths: a contemporary approach with flexible chapter construction, clear exposition, and outstanding problems. Like previous editions, this revision is written from the viewpoint of the applied mathematician, focusing both on the theory and the practical applications of Differential Equations as they apply to engineering and the sciences. A perennial best seller designed for engineers and scientists who need to use Elementary Differential Equations in their work and studies. The CD-ROM includes: The award-winning ODE Architect software. The software's 14 modules enable you to build and solve your own ODEs, and to use simulations and multimedia to develop detailed mathematical models and concepts in a truly interactive environment. The ODE Architect Companion. The Companion extends the ideas featured in each multimedia module. The web-based learning tools include: Review & Study Guidelines. The Chapter Review Guidelines will help you prepare for quizzes and exams. Online Review Quizzes. The quizzes enable you to test your knowledge of key concepts and provide diagnostic feedback that references appropriate sections in the text. PowerPoint Slides. You can print these slides out for in-class note taking. Getting Started with ODE Architect. This guide will help you get up-and-running with ODE Architect's simulations and multimedia.

Book Information

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Customer Reviews

I really did not enjoy this book and would advise anyone who is not required to use it to stay away from it.Are you interested in math? Do you want to see some math theory behind differential equations? If yes to either of those questions, stay clear of Boyce's diff eq. book. This book takes

you through a world of learning methods and memorizing tricks in order to solve a whole lot of differential equations that, quite honestly, are so clearly devoid of any interesting properties. If you just want to memorize how to solve an equation of form x, this'll be a great book for you but be warned, you'll never have any idea how to solve a DE that you haven't been familiarized with because there's barely any real math in here.Bear in mind that I am studying physics and not math. A lot of physicists tend to like when things are not so mathematically rigorous but this book is a huge leap beyond even that. You'll move from learning one technique to another and then on to those horribly stupid tank problems (which you'll be familiarized with in every ODE class, unfortunately).The one single saving grace for this book, and the sole reason for me not giving it one star, is that it is incredibly easy. I've run into my fair share of books that were pedagogically disastrous and then difficult on top of that, leading to a huge amount of frustration for the reader. This, luckily, is really one of the easiest textbooks I've ever used. For those who recall high school math classes where homework consisted of solving hundreds of identical problems each night, this will be familiar. The problems are un-original most of the time and almost always repetitive. So generally speaking, if you've solved one problem in a chapter, you've solved them all.

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