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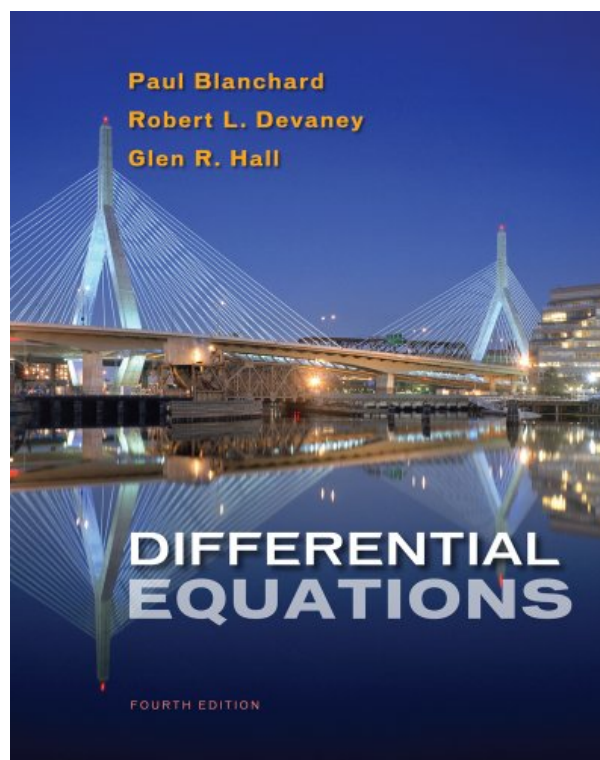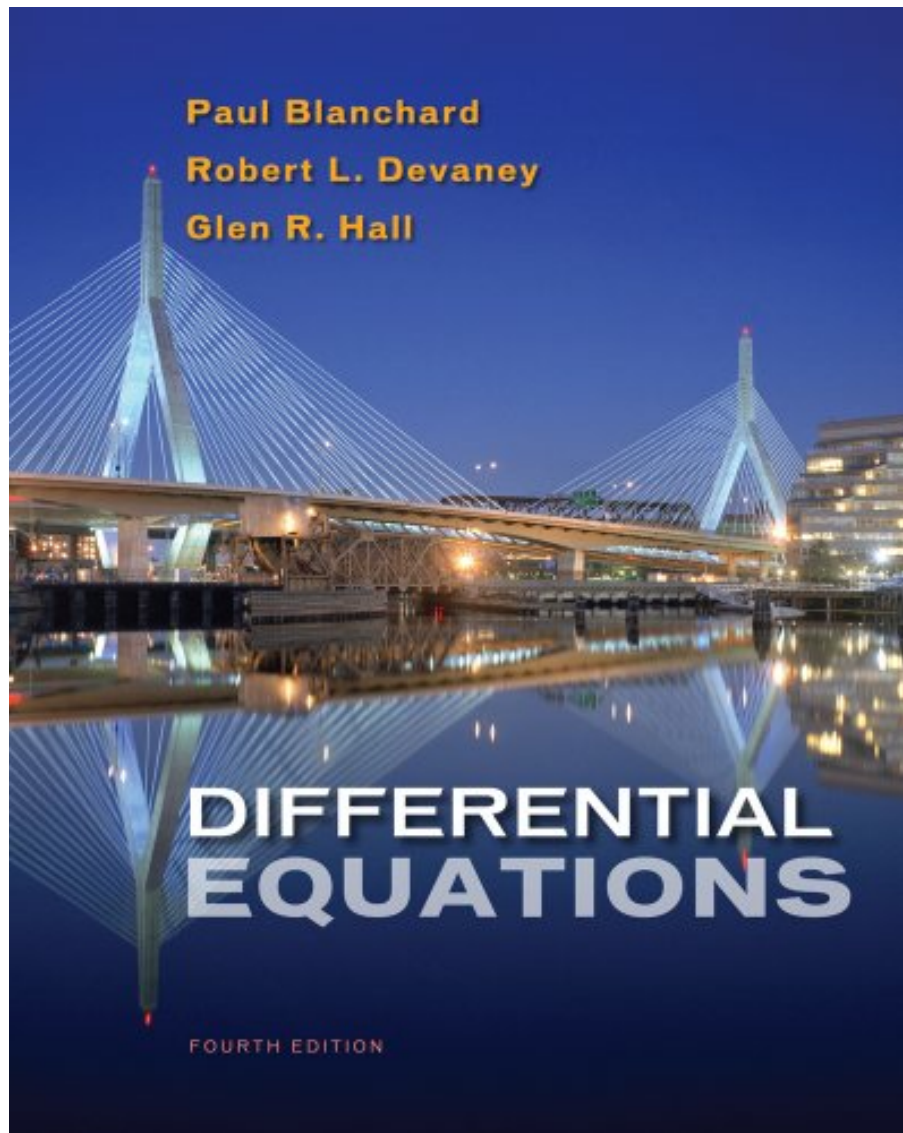

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About the Author
Paul Blanchard is Associate Professor of Mathematics at Boston University. Paul grew up in Sutton, Massachusetts, spent his undergraduate years at Brown University, and received his Ph.D. from Yale University. He has taught college mathematics for twenty-five years, mostly at Boston University. In 2001, he won the Northeast Section of the Mathematical Association of America's Award for Distinguished Teaching in Mathematics. He has coauthored or contributed chapters to four different textbooks. His main area of mathematical research is complex analytic dynamical systems and the related point sets, Julia sets and the Mandelbrot set. Most recently his efforts have focused on reforming the traditional differential equations course, and he is currently heading the Boston University Differential Equations Project and leading workshops in this innovative approach to teaching differential equations. When he becomes exhausted fixing the errors made by his two coauthors, he usually closes up his CD store and heads to the golf course with his caddy, Glen Hall.

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Incorporating an innovative modeling approach, this book for a one-semester differential equations course emphasizes conceptual understanding to help users relate information taught in the classroom to real-world experiences. Certain models reappear throughout the book as running themes to synthesize different concepts from multiple angles, and a dynamical systems focus emphasizes predicting the long-term behavior of these recurring models. Users will discover how to identify and harness the mathematics they will use in their careers, and apply it effectively outside the classroom.

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I've taken a large variety of higher level mathematics courses and this has got to be the worst textbook I have had to work with
By Amazon Customer
Honestly a very badly written textbook. I've taken a large variety of higher level mathematics courses and this has got to be the worst textbook I have had to work with. If you are looking for a good textbook to teach a solid understanding of ODEs, this is not the book for you. Explanations are long winded and confusing, use confusing language which is not clearly explained, and contain no clear examples which will aid in solving the practice problems at the end of every section. This book is not worth the money, save it and get something else.

9 of 10 people found the following review helpful.
Outstanding intro to ordinary differential equations that makes the subject come alive
By Lawrence J. Baker
I used this text to teach differential equations to advanced high school seniors and it worked extremely well. After considering several other texts, I was sold on this book for three reasons:

1. Rather than older-style differential equations books that focus on analytic methods, this book has a consistent approach of using a combination of analytic, qualitative, and numerical methods. As an industrial mathematician, most differential equations that I worked with could not be solved analytically and thus numerical and qualitative techniques became key tools.

2. The friendly expository style of the authors motivates the material and is easier for students to understand than more formal textbooks. New material is always introduced by concrete examples before getting into theory.

3. The book is written from a dynamical systems point of view and the authors tap into many interesting results from the past 40-50 years, e.g., the Lorenz equations, modeling epidemics, adaptive shock absorbers, etc.

Perhaps my most pleasant surprise teaching the course was how much the students liked and learned from DETools, the differential equation software that comes with the textbook. We regularly used DETools in class (there's essentially no learning curve) and its use energized the students and made much more clear to them the nature of solutions.

I also found the exploratory projects at the end of each chapter very valuable. My students liked the challenge of these more general and open-ended problems, and the projects solidified their understanding.

As far as the nuts and bolts of teaching the course, I typically covered one section per day, and we did most of the sections in Chapters 1-6. Regrettably we didn't get to the last two chapters of the book, but they are quite good. Chapter 7 gets into the nitty gritty of numerical methods (e.g., effects of finite arithmetic) and

Chapter 8 is a nice introduction to discrete dynamical methods. (A one-semester course in differential equations can only cover so much, so the text leaves to a later course many special techniques for analytically solving ODEs and it does not cover boundary value problems or the Fourier method.)

In summary, I am in very much in agreement with August 7, 2013 review by "G Cantor" that "it would be difficult to find a better introductory text for ordinary differential equations." This text is a great intro that makes the subject come alive and does an excellent job preparing students to work with differential equations both in later college colleges and in the real world.

0 of 0 people found the following review helpful.
Recommended
By acc2Kev
Needed it for class and the content was pretty interesting in my opinion.

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