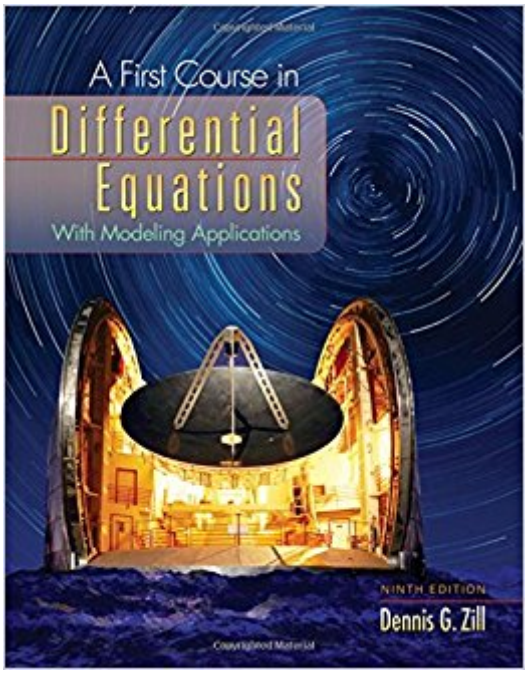
A First Course In Differential Equations



Synopsis

A First Course in Differential Equations with Modeling Applications, 9th Edition strikes a balance between the analytical, qualitative, and quantitative approaches to the study of differential equations. This proven and accessible text speaks to beginning engineering and math students through a wealth of pedagogical aids, including an abundance of examples, explanations, "Remarks" boxes, definitions, and group projects. Using a straightforward, readable, and helpful style, this book provides a thorough treatment of boundary-value problems and partial differential equations.

Book Information

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Customer Reviews

Dennis G. Zill is professor of mathematics at Loyola Marymount University. His interests are in applied mathematics, special functions, and integral transforms. Dr. Zill received his Ph.D. in applied mathematics and his M.S. from Iowa State University in 1967 and 1964, respectively. He received his B.A. from St. Mary’s in Winona, Minnesota, in 1962. Dr. Zill also is former chair of the Mathematics Department at Loyola Marymount University. He is the author or co-author of 13 mathematics texts.

The book sometimes has a confusing outline-type layout each chapter, which makes it hard to follow the concepts presented in a chapter. Additionally, the author occasionally goes through complicated proofs without being entirely clear how he does each step. When he comes out for the

equation for the proof, it usually is much more complicated than it needs to be. Example: the proof for an integrating factor comes up with some convoluted equation, which based on the layout looks like it's the key idea of the section. Then at the end of the section, the author puts the term e^(integral p(x)dx) almost as an afterthought.But, it's a solid math book. You can learn differential equations pretty well from it, and get good practice from the problems in it.

A decent book however it is not very focused on theory, and places a greater emphasis on practical examples. It would be difficult to learn the material just by reading the book without lecture.

This is a very difficult subject. This textbook would've been significantly better if there were more examples and perhaps more answers for some of the chapter problems for the sake of reference. Explanations could've been improved, too.

The book is pretty professional, however it comes with a pretty big price for such a small book. Also, some of the main equations in the book are poorly identified--they're there, but you have to look a little harder than just opening to the page and seeing it standing out in all of its glory. Also, if you've taken any calculus-based physics classes, I think you'll find that your physics textbook will do a much better job of explaining how to solve physics-related problems than this book does, rightly so maybe.

High recommendation. A very good book for beginners who want to learn about differential equations.

I absolutely love this book. The details and examples are perfect. I understood everything with assistance from my professor and will be keeping it. This was not the newest edition needed for my class but worked just as well.

How did I get this far? Good book in respect to the first order DE

Good

(Featured Titles for Differential Equations) Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Student Solutions Manual to accompany Boyce Elementary Differential Equations 10e & Elementary Differential Equations with Boundary Value Problems 10e [Differential Equations, Dynamical Systems, and an Introduction to Chaos [DIFFERENTIAL EQUATIONS, DYNAMICAL SYSTEMS, AND AN INTRODUCTION TO CHAOS BY Hirsch, Morris W. (Author) Mar-26-2012] By Hirsch, Morris W. (Author) [2012) [Paperback] Student's Solutions Manual for Fundamentals of Differential Equations 8e and Fundamentals of Differential Equations and Boundary Value Problems 6e Numerical Partial Differential Equations: Conservation Laws and Elliptic Equations (Texts in Applied Mathematics) (v. 33) Partial Differential Equations of Mathematical Physics and Integral Equations (Dover Books on Mathematics) A First Course in Differential Equations with Modeling Applications A First Course in Differential Equations: The Classic Fifth Edition (Classic Edition) A First Course in Differential Equations Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations: Improve Your Math Fluency Series Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations (Improve Your Math Fluency Series 12) Transformations Of Coordinates, Vectors, Matrices And Tensors Part I: LAGRANGEâ ™S EQUATIONS, HAMILTONâ ™S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16) How Einstein gives Dirac, Klein-Gordon and SchrÃ¶dinger: Deriving the SchrÃ¶dinger, Dirac and Klein-Gordon Equations from the Einstein-Field-Equations via an Intelligent Zero Numerical Partial Differential Equations in Finance Explained: An Introduction to Computational Finance (Financial Engineering Explained) Differential Equations and Dynamical Systems (Texts in Applied Mathematics) Elementary Differential Equations and Boundary Value Problems Differential Equations (with DE Tools Printed Access Card)