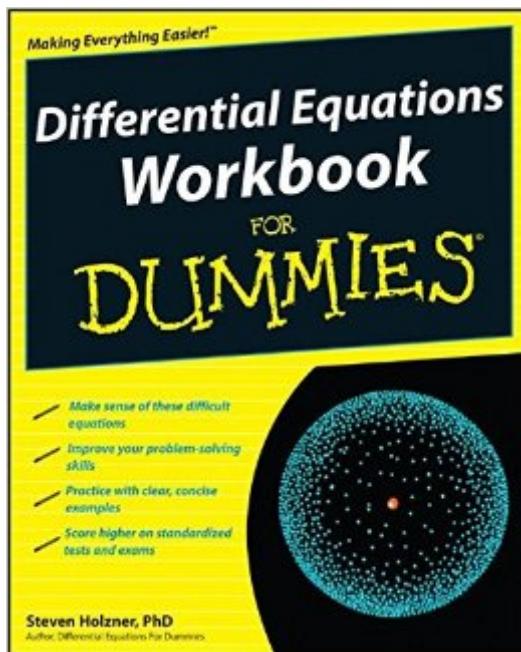


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# Differential Equations Workbook For Dummies



## Synopsis

Make sense of these difficult equations Improve your problem-solving skills Practice with clear, concise examples Score higher on standardized tests and exams Get the confidence and the skills you need to master differential equations! Need to know how to solve differential equations? This easy-to-follow, hands-on workbook helps you master the basic concepts and work through the types of problems you'll encounter in your coursework. You get valuable exercises, problem-solving shortcuts, plenty of workspace, and step-by-step solutions to every equation. You'll also memorize the most-common types of differential equations, see how to avoid common mistakes, get tips and tricks for advanced problems, improve your exam scores, and much more! More than 100 Problems! Detailed, fully worked-out solutions to problems The inside scoop on first, second, and higher order differential equations A wealth of advanced techniques, including power series THE DUMMIES WORKBOOK WAY Quick, refresher explanations Step-by-step procedures Hands-on practice exercises Ample workspace to work out problems Online Cheat Sheet A dash of humor and fun

## Book Information

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## Customer Reviews

This workbook requires that you have a knowledge of basic trigonometry and calculus. The workbooks in this series are wonderful because they provide short summaries with example problems. There then follows multiple problems for each subject with detailed solutions. This is the absolute key for individuals trying to review this subject or learn it on their own. In comparison to the Schaum's 3000 solved problems there is much less theory and many of the problems are easier to

solve. The Schaum's series is aimed more at college and graduate students. There are a few unfortunate mistakes in the solved answers in this Dummies workbook which is slightly annoying. (That is why I took one star off) Does anyone know if the publisher has a website with the errata? If not I would suggest that the publisher should provide a website with corrections. For the money this book is a very good deal and Dr. Holzner should be congratulated. If you need to brush up on your linear algebra and eigenvectors there is a chapter on this subject. A longer workbook dedicated to linear algebra would be a nice addition to this series of workbooks. The series contains 2 algebra workbooks, geometry, trigonometry, calculus, and this differential equations books. There are also physics and quantum mechanics workbooks. I am presently working my way through the quantum mechanics text and workbook. It is nice to be able to review and learn these subjects at minimal cost. It would be nice if a web service was linked with these workbooks. It could be staffed by graduate students and postdocs who need a little extra income.

The work book is fine, but it is keyed to the Differential Equations for Dummies book written by the same author. The exercises are generally of ordinary difficulty, and there are some topics that are not covered. The book doesn't touch on Green Functions, but unfortunately that is true of most American texts on ordinary differential equations. There should have been more variety displayed in the application of ordinary differential equations, especially in solving problems in dynamics, circuit analysis, fluid dynamics and perhaps even for basic problems in astronomy. For me the real value of ordinary differential equations is in its use in unlocking solutions to all kinds of practical problems. But overall, this book is a good review and well worth having in your mathematics library.

This is a good book if you are looking to get a basic grasp of differential equations - a tough subject by any standard. Holzner has provided a book here that can be used by someone who has had calculus but no exposure to differential equations or for someone who wants an adjunct to a course one is taking in on the subject in school. He does not review any calculus concepts in the text, but just assumes you know them. The problems in this book have fully worked out solutions so you can understand exactly what is going on - great! I am a firm believer in being able to see worked out solutions. I think they provide an excellent way to master the concepts. He covers all the introductory material starting with terminology first. This is followed by linear, separable, and exact first order equations and Euler's method. In Part II, he covers second and higher order linear homogeneous and linear nonhomogeneous equations. Part three covers more advanced stuff such as using power series to solve problems, series solutions near singular points, Laplace transforms and systems of

linear first order equations. This book is a companion to the theory book, Differential Equations for Dummies. You can cover each chapter in the theory book, and then do the problems in the workbook. The theory book is sometimes difficult to follow, but doing the problems in the workbook helps clear a lot of the fog. I would recommend getting the companion theory book, read the material in there first, then do the problems in this workbook. I found the problems presented in this workbook to be of the expected difficulty for an introductory text. If you want additional help, try Paul's Online Math Notes. This site is a great source for additional material on this subject. Just go to the section on differential equations.

First things first. Differential Equations Workbook for Dummies is FOR DUMMIES. Okay, so lets just get this straight. I think the overall quality of the workbook is decent. There are a lot of things I like and dislike about the workbook. First the pros. The book features a little over 200 problems all with full solutions at the end of each chapter. Very easy to follow and is an excellent introductory to solving ODE's. If your Calculus 2 (Differential and Integral Calculus) and Algebra are fine tuned this book will be a piece of cake, you'll finish it in no time. Now for the cons, this book is in no way a comprehensive workbook of all ideas and concepts you would learn from an undergraduate Differential Equations 1 class. If your a math major there's no proofs or analysis, so there's not much besides computation and little to no theory. If your an Engineering Major, its missing lots of applications (ten listed in the back, but theoretically the applications are endless), some Laplace Transforms stuff, Dirac delta functions, separable PDE's, euler's method, etc. Good intro book, but can never be a replacement for ones actually used in the classroom.

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