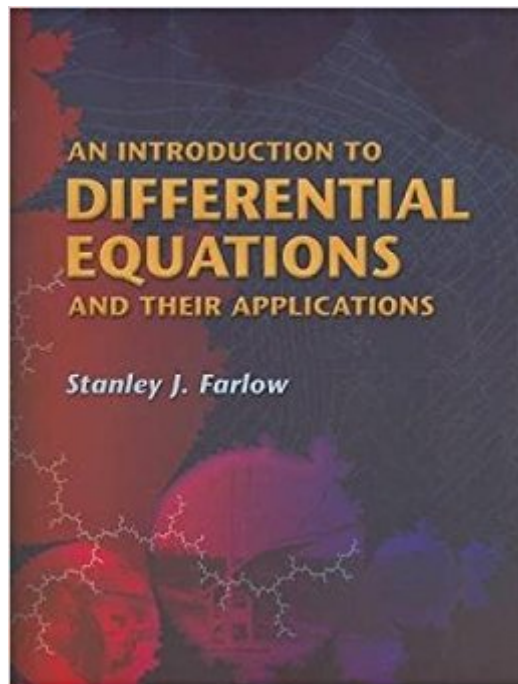




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# An Introduction To Differential Equations And Their Applications (Dover Books On Mathematics)



## Synopsis

Intended for use in a beginning one-semester course in differential equations, this text is designed for students of pure and applied mathematics with a working knowledge of algebra, trigonometry, and elementary calculus. Its mathematical rigor is balanced by complete but simple explanations that appeal to readers' physical and geometric intuition. Starting with an introduction to differential equations, the text proceeds to examinations of first- and second-order differential equations, series solutions, the Laplace transform, systems of differential equations, difference equations, nonlinear differential equations and chaos, and partial differential equations. Numerous figures, problems with solutions, and historical notes clarify the text.

## Book Information

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## Customer Reviews

Partial Differential Equations & Beyond Stanley J. Farlow's Partial Differential Equations for Scientists and Engineers is one of the most widely used textbooks that Dover has ever published. Readers of the many reviews will easily find out why. Jerry, as Professor Farlow is known to the mathematical community, has written many other fine texts [on calculus](#), [finite mathematics](#), [modeling](#), and other topics. We followed up the 1993 Dover edition of the partial differential equations title in 2006 with a new edition of his [An Introduction to Differential Equations and Their Applications](#). Readers who wonder if mathematicians have a sense of humor might search the internet for a copy of Jerry's [The Girl Who Ate Equations for Breakfast](#) (Aardvark Press, 1998). Critical Acclaim for Partial Differential Equations for Scientists and Engineers: "This book is

primarily intended for students in areas other than mathematics who are studying partial differential equations at the undergraduate level. The book is unusual in that the material is organized into 47 semi-independent lessons rather than the more usual chapter-by-chapter approach. "An appealing feature of the book is the way in which the purpose of each lesson is clearly stated at the outset while the student will find the problems placed at the end of each lesson particularly helpful. The first appendix consists of integral transform tables whereas the second is in the form of a crossword puzzle which the diligent student should be able to complete after a thorough reading of the text. "Students (and teachers) in this area will find the book useful as the subject matter is clearly explained. The author and publishers are to be complimented for the quality of presentation of the material." — K. Morgan, University College, Swansea

I used this book in my differential equations class in the Fall 2015 semester. The textbook has so many typos in it that one of the math professors at my college has created an errata webpage (see hyperlink below) that receives new reports of typos almost every semester. These errors are not generally pedantic or trivial, either. Undergraduate students regularly find that the answers to problems in the back of the book are wrong. As an undergraduate, I was able to find three typos in the first six weeks of the course. They are now posted on the aforementioned errata page. So unless you are willing to tolerate multitudes of typos \*or\* this is a required textbook for your course, it is not recommended that you buy this book.  
<http://userpages.umbc.edu/~rostamia/farlow-errata.html>

The writing style is excellent--simple words, simple sentences. The margins are really wide--and that's an awesomely helpful thing to have, with your pencil in hand--though the examples are so detailed you might not need to add a lot. The examples even have little titles about what's going on--great for reference, when coming back through the book after a while, which I do as a physics grad student. The theorems, definitions and PROCEDURES are boxed for easy reference--that helps a hell of a lot when you're coming back for a refresher. Good big, clear diagrams. The end-of-chapter problems are doable, answers in back to all. Someone said a lotta typos ... I didn't notice. Guess I knew I was right. First used this to back-up Boyce/DiPrima, which was assigned, and got an A ... lots in common, but the writing style and highlighted procedures here were way more comfortable to learn from. Only thing is he didn't use the tabular method of integration by parts, which I picked up from another DiffEq book, by Giordano/Weir--another good book with boxed algorithms.

This isn't the best differential eq textbook in any regards. Its really old (2006) so the ink is faded even in the brand new book. I can hardly see the graphs. It doesn't cover all the topics the books do for first year in diff eq. What I do like about this book is that it has very useful and few practice questions unlike other math textbooks who gives 200 problems for each chapter.

Tons of mistakes in this book, make sure to look up the errata

As described.

It didn't make me smarter - worked for my son though

My son needed for college, says it is one of the most informative manuals he has had to date! Worth every penny.

There is too many errors in the book. But for the price...

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[ 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 ] An Introduction to Differential Equations and Their Applications (Dover Books on Mathematics) Differential Equations and Their Applications: An Introduction to Applied Mathematics (Texts in Applied Mathematics) (v. 11) Partial Differential Equations of Mathematical Physics and Integral Equations (Dover Books on Mathematics) Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Student's Solutions Manual for Fundamentals of Differential Equations 8e and Fundamentals of Differential Equations and Boundary Value Problems 6e 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) Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Student Solutions Manual to accompany Boyce Elementary Differential Equations 10e & Elementary Differential Equations with Boundary Value Problems 10e Numerical Partial Differential Equations: Conservation Laws and Elliptic Equations (Texts in Applied Mathematics) (v. 33) Partial

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