



Differential Equations Demystified

By Steven Krantz

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Here's the perfect self-teaching guide to help anyone master differential equations--a common stumbling block for students looking to progress to advanced topics in both science and math. Covers First Order Equations, Second Order Equations and Higher, Properties, Solutions, Series Solutions, Fourier Series and Orthogonal Systems, Partial Differential Equations and Boundary Value Problems, Numerical Techniques, and more.

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Editorial Review

Review

Krantz asserts that if calculus is the heart of modern science, differential equations are the guts. Writing for those who already have a basic grasp of calculus, Krantz provides explanations, models, and examples that lead from differential equations to higher math concepts in a self-paced format. He includes chapters on first-order and second-order equations, power series solutions and spatial functions, Fourier series, Laplace transforms, numerical methods, partial equations and boundary value problems. His models come from engineering, physics and other fields in math. He includes solutions to the exercises and a final exam.

From review by M. Henle, Oberlin College

Differential equations is an important subject that lies at the heart of the calculus. Here one sees how the calculus applies to real-world problems. "Differential Equations DeMystified," (to use the spelling on the cover) is ...a serious, straightforward work. In style and substance this book is like standard differential equations books...The emphasis is consistently...on the computations needed to find...solutions to specific equations...

From the Back Cover

A DIFFERENT WAY TO LEARN DIFFERENTIAL EQUATIONS

Now anyone with an interest in stepping up to higher math can do so?without formal training, unlimited time, or a genius IQ. In *Differential Equations Demystified*, award-winning math professor Steven Krantz provides an effective, anxiety-free method to get past common obstacles on the road to success in higher math and science.

With *Differential Equations Demystified*, you master the subject one step at a time?at your own speed. This self-teaching guide offers unique "Math Notes" and "You Try It" exercises, problems at the end of each chapter to pinpoint weaknesses, and a 100-question final exam to reinforce the great information in the entire book.

If you want to master differential equations fearlessly, here's a fast and effective self-teaching course to help you do just that. Get ready to --

- Solve both ordinary and partial differential equations?
- Work detailed examples and stimulating do-it-yourself exercises
- Discover multiple ways to solve equations, moving seamlessly into higher dimension math concepts
- Apply the analytical power of differential equations in engineering and science,
- Score better on science, math, and standardized tests

A fast, effective self-teaching course, *Differential Equations Demystified* is the perfect shortcut to confidence and skill with crucial mathematical skills.

About the Author

Steven Krantz, Ph.D., is Chairman of the Mathematics Department at Washington University in St. Louis. An award-winning teacher and author, Dr. Krantz has written more than 45 books on mathematics, including *Calculus Demystified*, another popular title in this series. He lives in St. Louis, Missouri.

Users Review

From reader reviews:

Alan Johnson:

Have you spare time for any day? What do you do when you have a lot more or little spare time? Yes, you can choose the suitable activity with regard to spend your time. Any person spent their spare time to take a go walking, shopping, or went to the actual Mall. How about open or perhaps read a book entitled Differential Equations Demystified? Maybe it is being best activity for you. You realize beside you can spend your time using your favorite's book, you can cleverer than before. Do you agree with its opinion or you have additional opinion?

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Glenn Herrera:

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