# Differential Equations: Theory, Technique and Practice, Second Edition (Textbooks in Mathematics)

*By Steven G. Krantz*

**Differential Equations: Theory, Technique and Practice, Second Edition (Textbooks in Mathematics)** By Steven G. Krantz

"Krantz is a very prolific writer. He … creates excellent examples and problem sets."
?Albert Boggess, Professor and Director of the School of Mathematics and Statistical Sciences, Arizona State University, Tempe, USA

Designed for a one- or two-semester undergraduate course, **Differential Equations: Theory, Technique and Practice, Second Edition** educates a new generation of mathematical scientists and engineers on differential equations. This edition continues to emphasize examples and mathematical modeling as well as promote analytical thinking to help students in future studies.

**New to the Second Edition**

- Improved exercise sets and examples
- Reorganized material on numerical techniques
- Enriched presentation of predator-prey problems
- Updated material on nonlinear differential equations and dynamical systems
- A new appendix that reviews linear algebra

In each chapter, lively historical notes and mathematical nuggets enhance students' reading experience by offering perspectives on the lives of significant contributors to the discipline. "Anatomy of an Application" sections highlight rich applications from engineering, physics, and applied science. Problems for review and discovery also give students some open-ended material for exploration and further learning.

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About the Author

**Steven G. Krantz** is a professor of mathematics at Washington University in St. Louis. He has written more than 65 books and more than 175 scholarly papers and is the founding editor of the *Journal of Geometric Analysis*. An AMS Fellow, Dr. Krantz has been a recipient of the Chauvenet Prize, Beckenbach Book Award, and Kemper Prize. He received a Ph.D. from Princeton University.

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