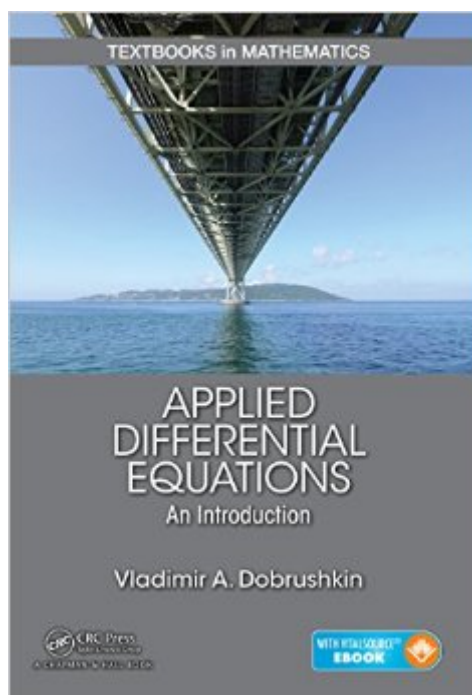


The book was found

# Applied Differential Equations: The Primary Course (Textbooks In Mathematics)



## Synopsis

**A Contemporary Approach to Teaching Differential Equations**  
**Applied Differential Equations: An Introduction** presents a contemporary treatment of ordinary differential equations (ODEs) and an introduction to partial differential equations (PDEs), including their applications in engineering and the sciences. Designed for a two-semester undergraduate course, the text offers a true alternative to books published for past generations of students. It enables students majoring in a range of fields to obtain a solid foundation in differential equations. The text covers traditional material, along with novel approaches to mathematical modeling that harness the capabilities of numerical algorithms and popular computer software packages. It contains practical techniques for solving the equations as well as corresponding codes for numerical solvers. Many examples and exercises help students master effective solution techniques, including reliable numerical approximations. This book describes differential equations in the context of applications and presents the main techniques needed for modeling and systems analysis. It teaches students how to formulate a mathematical model, solve differential equations analytically and numerically, analyze them qualitatively, and interpret the results.

## Book Information

File Size: 27945 KB

Print Length: 731 pages

Publisher: Chapman and Hall/CRC; Revised ed. edition (December 16, 2014)

Publication Date: December 16, 2014

Sold by: Digital Services LLC

Language: English

ASIN: B00UVBIJWY

Text-to-Speech: Not enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #251,718 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #20

in Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Applied > Differential Equations #128 in Books > Science & Math > Mathematics > Applied > Differential Equations #79845 in Books > Reference

## Customer Reviews

This book, an update of the vaunted Boyce & DiPrima work, has been a seminal part of my differential equations education. Prof. Dobrushkin is a wonderful mentor to many at Brown, and he applies a similar style of mentorship/apprenticeship to this course. I'd highly recommend the textbook to any advanced math student looking to expand his/her differential equations skill set.

I have Vladimir Dobrushkin as a professor for this course at Brown, and he is amazing. He is very thorough, and is extremely intelligent. This book will provide you with a comprehensive education in the field of differential equations, and is much better than other textbooks on the market.

[Download to continue reading...](#)

Applied Differential Equations: The Primary Course (Textbooks in Mathematics) Applied Partial Differential Equations with Fourier Series and Boundary Value Problems (5th Edition) (Featured Titles for Partial Differential Equations) Differential Equations and Boundary Value Problems: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Differential Equations: Computing and Modeling (5th Edition) (Edwards/Penney/Calvis Differential Equations) Fundamentals of Differential Equations (8th Edition) (Featured Titles for Differential Equations) Fundamentals of Differential Equations and Boundary Value Problems (6th Edition) (Featured Titles for Differential Equations) Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling Numerical Partial Differential Equations: Finite Difference Methods (Texts in Applied Mathematics) An Introduction to Partial Differential Equations with MATLAB (Chapman & Hall/CRC Applied Mathematics & Nonlinear Science) Computational Partial Differential Equations Using MATLAB (Chapman & Hall/CRC Applied Mathematics & Nonlinear Science) Finite Difference Methods for Ordinary and Partial Differential Equations: Steady-State and Time-Dependent Problems (Classics in Applied Mathematics) Differential Equations, Dynamical Systems, and an Introduction to Chaos, Second Edition (Pure and Applied Mathematics) A Second Course in Elementary Differential Equations (Dover Books on Mathematics) Applied Partial Differential Equations: With Fourier Series and Boundary Value Problems, 4th Edition Partial Differential Equations (Applied Mathematical Sciences) (v. 1) A First Course in Differential Equations with Modeling Applications A First Course in Differential Equations: The Classic Fifth Edition (Classic Edition) A Course in Ordinary Differential Equations, Second Edition Ecuaciones diferenciales con aplicaciones de modelado/ A First Course in Differential Equations (Spanish Edition) Transformations Of Coordinates, Vectors, Matrices And

Tensors Part I: LAGRANGE'S EQUATIONS, HAMILTON'S EQUATIONS, SPECIAL THEORY OF RELATIVITY AND CALCULUS ... Mathematics From 0 And 1 Book 16)

[Dmca](#)