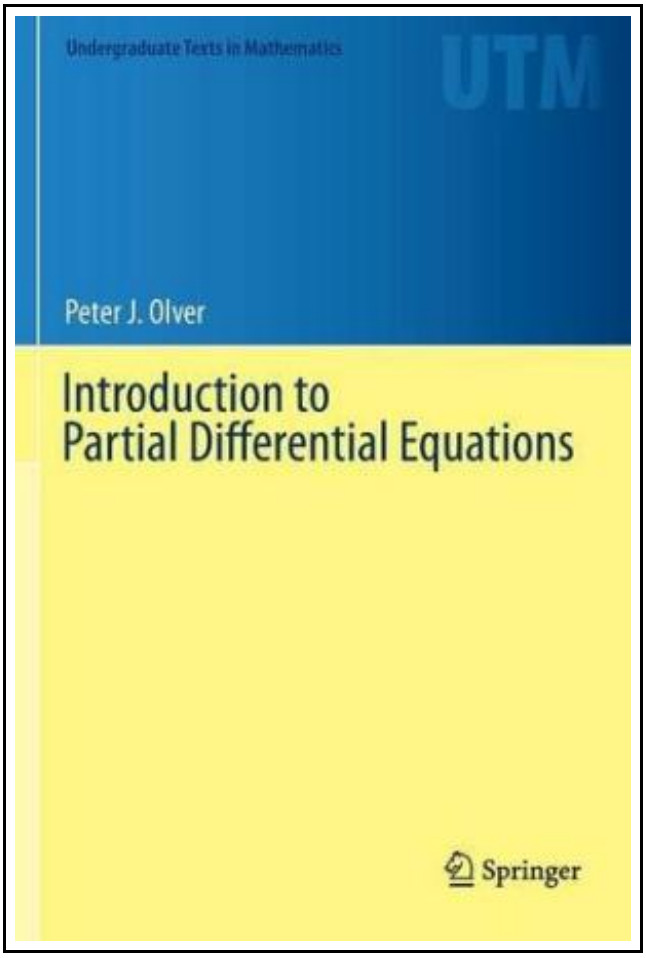
Introduction to Partial Differential Equations



Filesize: 8.49 MB

Reviews

The book is great and fantastic. It is writter in straightforward words and phrases rather than difficult to understand. You wont really feel monotony at at any time of your respective time (that's what catalogues are for regarding should you question me).
(Payton Miller)

INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

To read **Introduction to Partial Differential Equations** PDF, make sure you access the hyperlink listed below and save the file or have accessibility to additional information that are relevant to INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS book.

Springer International Publishing AG. Hardback. Book Condition: new. BRAND NEW, Introduction to Partial Differential Equations, Peter Olver, This textbook is designed for a one year course covering the fundamentals of partial differential equations, geared towards advanced undergraduates and beginning graduate students in mathematics, science, engineering, and elsewhere. The exposition carefully balances solution techniques, mathematical rigor, and significant applications, all illustrated by numerous examples. Extensive exercise sets appear at the end of almost every subsection, and include straightforward computational problems to develop and reinforce new techniques and results, details on theoretical developments and proofs, challenging projects both computational and conceptual, and supplementary material that motivates the student to delve further into the subject. No previous experience with the subject of partial differential equations or Fourier theory is assumed, the main prerequisites being undergraduate calculus, both one- and multi-variable, ordinary differential equations, and basic linear algebra. While the classical topics of separation of variables, Fourier analysis, boundary value problems, Green's functions, and special functions continue to form the core of an introductory course, the inclusion of nonlinear equations, shock wave dynamics, symmetry and similarity, the Maximum Principle, financial models, dispersion and solitons, Huygens'. Principle, quantum mechanical systems, and more make this text well attuned to recent developments and trends in this active field of contemporary research. Numerical approximation schemes are an important component of any introductory course, and the text covers the two most basic approaches: finite differences and finite elements. Peter J. Olver is professor of mathematics at the University of Minnesota. His wide-ranging research interests are centered on the development of symmetry-based methods for differential equations and their manifold applications. He is the author of over 130 papers published in major scientific research journals as well as 4 other books, including the definitive Springer graduate text, Applications of Lie Groups...

Other Books

[PDF] The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)

Access the web link under to download "The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)" PDF document.

Save ePub »

[PDF] Becoming a Spacewalker: My Journey to the Stars (Hardback)

Access the web link under to download "Becoming a Spacewalker: My Journey to the Stars (Hardback)" PDF document.

Save ePub »

[PDF] Accused: My Fight for Truth, Justice and the Strength to Forgive

Access the web link under to download "Accused: My Fight for Truth, Justice and the Strength to Forgive" PDF document.

Save ePub »

[PDF] Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)

Access the web link under to download "Oxford Reading Tree Read with Biff, Chip and Kipper: Phonics: Level 2: A Yak at the Picnic (Hardback)" PDF document.

Save ePub »

[PDF] ESV Study Bible, Large Print (Hardback)

Access the web link under to download "ESV Study Bible, Large Print (Hardback)" PDF document.

Save ePub »

[PDF] Goodparents.com: What Every Good Parent Should Know About the Internet (Hardback)

Access the web link under to download "Goodparents.com: What Every Good Parent Should Know About the Internet (Hardback)" PDF document.

Save ePub »