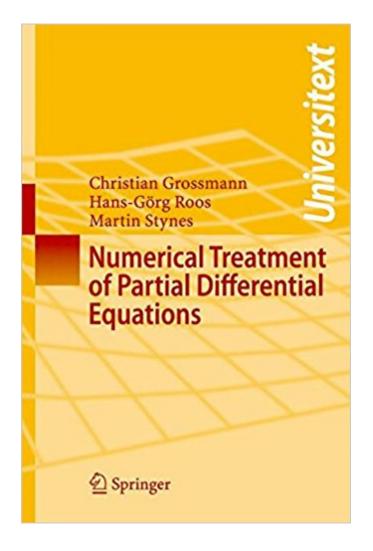


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# Numerical Treatment Of Partial Differential Equations (Universitext)





# Synopsis

This book deals with discretization techniques for partial differential equations of elliptic, parabolic and hyperbolic type. It provides an introduction to the main principles of discretization and gives a presentation of the ideas and analysis of advanced numerical methods in the area. The book is mainly dedicated to finite element methods, but it also discusses difference methods and finite volume techniques. Coverage offers analytical tools, properties of discretization techniques and hints to algorithmic aspects. It also guides readers to current developments in research.

### **Book Information**

Series: Universitext Paperback: 596 pages Publisher: Springer; 2007 edition (November 16, 2007) Language: English ISBN-10: 3540715827 ISBN-13: 978-3540715825 Product Dimensions: 6.1 x 1.4 x 9.2 inches Shipping Weight: 1.9 pounds (View shipping rates and policies) Average Customer Review: Be the first to review this item Best Sellers Rank: #736,609 in Books (See Top 100 in Books) #99 inÅ Å Books > Science & Math > Mathematics > Number Systems #429 inÅ Å Books > Science & Math > Mathematics > Applied > Differential Equations #619 inÅ Å Books > Science & Math > Mathematics > Mathematical Analysis

#### **Customer Reviews**

From the reviews: "This textbook is the translation and revision of the third German edition of 2005. ... the book deals with different aspects of the numerical solution of elliptic, parabolic and hyperbolic partial differential equations. ... An index and two pages with a summary of the notations used complete the presentation. ... It can be highly recommended for students and engineers but also for numerical analysts." (Riidiger Weiner, Zentralblatt fiir Angewandte Mathematik and Mechanik, Vol. 88 (12), 2008)

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