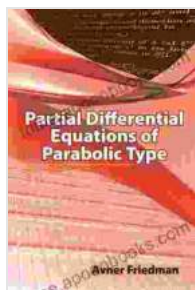


Partial Differential Equations of Parabolic Type

A Comprehensive Guide to a Fundamental Mathematical Concept

Partial differential equations (PDEs) of parabolic type are a fundamental class of equations that arise in a wide range of applications, including mathematical physics, engineering, and finance. This classic Dover publication presents a systematic treatment of these equations, along with their applications. Renowned for its clarity and depth, this volume has been a valuable resource for students, researchers, and professionals alike since its initial publication in 1964.



Partial Differential Equations of Parabolic Type (Dover Books on Mathematics) by Avner Friedman

★★★★☆ 4.7 out of 5

Language	: English
File size	: 21899 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 368 pages
Lending	: Enabled



Systematic and Comprehensive Coverage

Written by Avner Friedman, a leading expert in the field, this book provides a thorough examination of parabolic PDEs. The book begins with an to the basic concepts of PDEs, such as classification, well-posedness, and

boundary conditions. It then delves into the fundamental theory of parabolic PDEs, including maximum principles, existence and uniqueness theorems, and regularity estimates.

The book also covers advanced topics such as nonlinear parabolic equations, parabolic equations with variable coefficients, and parabolic systems. Each chapter is carefully structured with problem sets and exercises to reinforce understanding and provide practical applications.

Applications in Mathematical Physics and Engineering

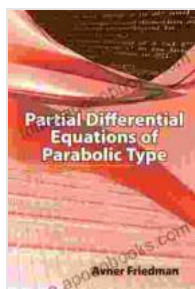
One of the strengths of this book is its emphasis on applications. Friedman demonstrates how parabolic PDEs can be used to model a wide range of physical phenomena, including heat conduction, diffusion, and wave propagation. He also discusses applications in chemical engineering, fluid mechanics, and elasticity.

The book provides numerous examples and exercises that illustrate the practical relevance of parabolic PDEs. These examples help readers gain a deeper understanding of how these equations are used to solve real-world problems.

Dover Publications: A Trusted Resource

Dover Publications is a renowned publisher of high-quality, affordable books in mathematics, science, and the humanities. This classic text on parabolic PDEs is a testament to Dover's commitment to providing accessible and authoritative works. The book is well-written, carefully edited, and reasonably priced, making it an excellent choice for both students and professionals.

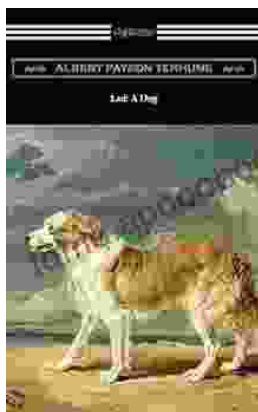
Partial Differential Equations of Parabolic Type is an essential resource for anyone interested in the study of parabolic PDEs. Its comprehensive coverage, clear exposition, and practical applications make this book a valuable tool for students, researchers, and practitioners alike. Whether you are new to the subject or an experienced researcher, this classic Dover publication is a must-have for your library.



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