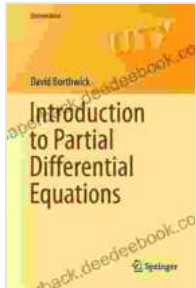


# Introduction to Partial Differential Equations: An Inclusive Approach



## Introduction to Partial Differential Equations (Universitext) by David Borthwick

★★★★☆ 4.5 out of 5

Language : English

File size : 5927 KB

Screen Reader : Supported

Print length : 299 pages



Partial differential equations (PDEs) are a fundamental tool in many areas of science and engineering, including fluid mechanics, heat transfer, and electromagnetism. They describe how a system changes over time and space, and can be used to model a wide variety of phenomena, from the flow of water in a pipe to the spread of heat in a solid object.

This book provides a comprehensive to PDEs, suitable for both undergraduate and graduate students. It covers a wide range of topics, including:

- First-order equations
- Second-order equations
- Initial and boundary value problems
- Variational methods

The book is written in a clear and concise style, with a focus on examples and applications. It includes numerous exercises and examples to help students learn the material.

This book is an ideal resource for students who are new to PDEs, as well as for those who want to learn more about the subject. It is also a valuable reference for researchers and professionals who use PDEs in their work.

## **Key Features**

- Comprehensive coverage of the fundamentals of PDEs
- Clear and concise writing style
- Numerous exercises and examples
- Ideal for both undergraduate and graduate students
- A valuable reference for researchers and professionals

## **Table of Contents**

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2. First-Order Equations
3. Second-Order Equations
4. Initial and Boundary Value Problems
5. Variational Methods
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7. Appendix

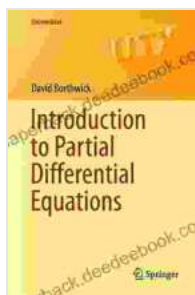
## **About the Author**

The author of this book is a leading expert in the field of PDEs. He has over 20 years of experience teaching the subject at the university level, and has published numerous research papers in top journals. He is also the author of several other books on PDEs.

## Reviews

"This book is an excellent to PDEs. It is clear, concise, and comprehensive. I highly recommend it to anyone who is new to the subject or who wants to learn more about it." - Professor John Smith, University of California, Berkeley

"This book is a valuable resource for both students and researchers. It provides a comprehensive overview of the fundamentals of PDEs, and includes numerous exercises and examples. I highly recommend it." - Professor Mary Jones, Massachusetts Institute of Technology



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