

# An introduction to partial differential equations

## 53.1 Introduction

A partial differential equation is an equation that contains one or more partial derivatives. Examples include:

$$(i) \quad a \frac{\partial u}{\partial x} + b \frac{\partial u}{\partial y} = c$$

$$(ii) \quad \frac{\partial^2 u}{\partial x^2} = \frac{1}{c^2} \frac{\partial u}{\partial t}$$

(known as the heat conduction equation)

$$(iii) \quad \frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$$

(known as Laplace's equation)

Equation (i) is a **first order partial differential equation**, and equations (ii) and (iii) are **second order partial differential equations** since the highest power of the differential is 2.

Partial differential equations occur in many areas of engineering and technology: electrostatics, heat conduction, magnetism, wave motion, hydrodynamics and aerodynamics all use models that involve partial differential equations. Such equations are difficult to solve, but techniques have been developed for the simpler types. In fact, for all but for the simplest cases, there are a number of numerical methods of solutions of partial differential equations available.

To be able to solve simple partial differential equations knowledge of the following is required:

- partial integration,
- first and second order partial differentiation — as explained in Chapter 34, and
- the solution of ordinary differential equations — as explained in Chapters 46–51.

It should be appreciated that whole books have been written on partial differential equations and their

solutions. This chapter does no more than introduce the topic.

## 53.2 Partial integration

Integration is the reverse process of differentiation.

Thus, if, for example,  $\frac{\partial u}{\partial t} = 5 \cos x \sin t$  is integrated partially with respect to  $t$ , then the  $5 \cos x$  term is considered as a constant,

$$\begin{aligned} \text{and } u &= \int 5 \cos x \sin t \, dt = (5 \cos x) \int \sin t \, dt \\ &= (5 \cos x)(-\cos t) + c \\ &= -5 \cos x \cos t + f(x) \end{aligned}$$

Similarly, if  $\frac{\partial^2 u}{\partial x \partial y} = 6x^2 \cos 2y$  is integrated partially with respect to  $y$ ,

$$\begin{aligned} \text{then } \frac{\partial u}{\partial x} &= \int 6x^2 \cos 2y \, dy = (6x^2) \int \cos 2y \, dy \\ &= (6x^2) \left( \frac{1}{2} \sin 2y \right) + f(x) \\ &= 3x^2 \sin 2y + f(x) \end{aligned}$$

and integrating  $\frac{\partial u}{\partial x}$  partially with respect to  $x$  gives:

$$\begin{aligned} u &= \int [3x^2 \sin 2y + f(x)] \, dx \\ &= x^3 \sin 2y + (x)f(x) + g(y) \end{aligned}$$

$f(x)$  and  $g(y)$  are functions that may be determined if extra information, called **boundary conditions** or **initial conditions**, are known.

# Partial Differential Equations An Introduction

**Michael Renardy, Robert C. Rogers**

## Partial Differential Equations An Introduction:

**Partial Differential Equations** Michael Shearer, Rachel Levy, 2015-03-01 An accessible yet rigorous introduction to partial differential equations This textbook provides beginning graduate students and advanced undergraduates with an accessible introduction to the rich subject of partial differential equations PDEs It presents a rigorous and clear explanation of the more elementary theoretical aspects of PDEs while also drawing connections to deeper analysis and applications The book serves as a needed bridge between basic undergraduate texts and more advanced books that require a significant background in functional analysis Topics include first order equations and the method of characteristics second order linear equations wave and heat equations Laplace and Poisson equations and separation of variables The book also covers fundamental solutions Green's functions and distributions beginning functional analysis applied to elliptic PDEs traveling wave solutions of selected parabolic PDEs and scalar conservation laws and systems of hyperbolic PDEs Provides an accessible yet rigorous introduction to partial differential equations Draws connections to advanced topics in analysis Covers applications to continuum mechanics An electronic solutions manual is available only to professors An online illustration package is available to professors

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*Introduction to Partial Differential Equations* Peter J. Olver, 2013-11-08 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 solutions 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

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**Matematica And Maple** Ioannis P Stavroulakis, Stepan A Tersian, 1999-12-13 This textbook is a self contained introduction to partial differential equations It is designed for undergraduate and first year graduate students who are mathematics physics engineering or in general science majors The goal is to give an introduction to the basic equations of mathematical physics and the properties of their solutions based on classical calculus and ordinary differential equations Advanced concepts such as weak solutions and discontinuous solutions of nonlinear conservation laws are also considered The material is illustrated with model examples Mathematics software products such as Mathematica and Maple in ScientificWorkPlace are used in both graphical and computational aspects

### Partial Differential Equations David L. Colton, 1988

This text offers students in mathematics engineering and the applied sciences a solid foundation for advanced studies in mathematics Classical topics presented in a modern context include coverage of integral equations and basic scattering theory Includes examples of inverse problems arising from improperly posed applications as well as exercises many with answers

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**Applied Partial Differential Equations: An Introduction** Alan Jeffrey,2003 This work is for students who need more than the purely numerical solutions provided by programs like the MATLAB PDE Toolbox and those obtained by the method of separation of variables

**Partial Differential Equations** Nita H. Shah,Mrudul Y. Jani,2020-12-28 Differential equations play a noticeable role in engineering physics economics and other disciplines They permit us to model changing forms in both mathematical and physical problems These equations are precisely used when a deterministic relation containing some continuously varying quantities and their rates of change in space and or time is recognized or postulated This book is intended to provide a straightforward introduction to the concept of partial differential equations It provides a diversity of numerical examples framed to nurture the intellectual level of scholars It includes enough examples to provide students with a clear concept and also offers short questions for comprehension Construction of real life problems is considered in the last chapter along with applications Research scholars and students working in the fields of engineering physics and different branches of mathematics need to learn the concepts of partial differential equations to solve their problems This book will serve their needs instead of having to use more complex books that contain more concepts than needed

**Introduction To Partial Differential Equations (With Maple), An: A Concise Course** Zhilin Li,Larry Norris,2021-09-23 The book is designed for undergraduate or beginning level graduate students and students from interdisciplinary areas including engineers and others who need to use partial differential equations Fourier series Fourier and Laplace transforms The prerequisite is a basic knowledge of calculus linear algebra and ordinary differential equations The textbook aims to be practical elementary and reasonably rigorous the book is

concise in that it describes fundamental solution techniques for first order second order linear partial differential equations for general solutions fundamental solutions solution to Cauchy initial value problems and boundary value problems for different PDEs in one and two dimensions and different coordinates systems Analytic solutions to boundary value problems are based on Sturm Liouville eigenvalue problems and series solutions The book is accompanied with enough well tested Maple files and some Matlab codes that are available online The use of Maple makes the complicated series solution simple interactive and visible These features distinguish the book from other textbooks available in the related area *Introduction to Partial Differential Equations with MATLAB* Jeffery M. Cooper,2012-12-06 Overview The subject of partial differential equations has an unchanging core of material but is constantly expanding and evolving The core consists of solution methods mainly separation of variables for boundary value problems with constant coefficients in geometrically simple domains Too often an introductory course focuses exclusively on these core problems and techniques and leaves the student with the impression that there is no more to the subject Questions of existence uniqueness and well posedness are ignored In particular there is a lack of connection between the analytical side of the subject and the numerical side Furthermore nonlinear problems are omitted because they are too hard to deal with analytically Now however the availability of convenient powerful computational software has made it possible to enlarge the scope of the introductory course My goal in this text is to give the student a broader picture of the subject In addition to the basic core subjects I have included material on nonlinear problems and brief discussions of numerical methods I feel that it is important for the student to see nonlinear problems and numerical methods at the beginning of the course and not at the end when we run usually run out of time Furthermore numerical methods should be introduced for each equation as it is studied not lumped together in a final chapter **Modern Methods in Partial Differential Equations** Martin Schechter,1977 *Partial Differential Equations* David Colton,2012-06-14 This text offers students in mathematics engineering and the applied sciences a solid foundation for advanced studies in mathematics Features coverage of integral equations and basic scattering theory Includes exercises many with answers 1988 edition **Introduction to Partial Differential Equations** David Borthwick,2017-01-12 This modern take on partial differential equations does not require knowledge beyond vector calculus and linear algebra The author focuses on the most important classical partial differential equations including conservation equations and their characteristics the wave equation the heat equation function spaces and Fourier series drawing on tools from analysis only as they arise Within each section the author creates a narrative that answers the five questions What is the scientific problem we are trying to understand How do we model that with PDE What techniques can we use to analyze the PDE How do those techniques apply to this equation What information or insight did we obtain by developing and analyzing the PDE The text stresses the interplay between modeling and mathematical analysis providing a thorough source of problems and an inspiration for the development of methods **Partial Differential Equations** Vladimir A. Tolstykh,2020-06-08 This is a

clear rigorous and self contained introduction to PDEs for a semester based course on the topic For the sake of smooth exposition the book keeps the amount of applications to a minimum focusing instead on the theoretical essentials and problem solving The result is an agile compendium of theorems and methods the ideal companion for any student tackling PDEs for the first time Vladimir Tolstykh is a professor of mathematics at Istanbul Arel University He works in group theory and model theoretic algebra Dr Tolstykh received his Ph D in Mathematics from the Ural Institute of Mathematics and Mechanics Ekaterinburg Russia in 1992 and his Doctor of Science degree in Mathematics from the Sobolev Institute of Mathematics Novosibirsk Russia in 2007 Partial Differential Equations Bernard Epstein,1962 Differential Equations: An Introduction To Basic Concepts, Results And Applications Ioan I Vrabie,2004-04-27 This book presents in a unitary frame and from a new perspective the main concepts and results of one of the most fascinating branches of modern mathematics namely differential equations and offers the reader another point of view concerning a possible way to approach the problems of existence uniqueness approximation and continuation of the solutions to a Cauchy problem In addition it contains simple introductions to some topics which are not usually included in classical textbooks the exponential formula conservation laws generalized solutions Caratheodory solutions differential inclusions variational inequalities viability invariance gradient systems **Partial differential equations: an introduction** Günter Hellwig, **An Introduction to Partial Differential Equations** Michael Renardy,Robert C. Rogers,2004-01-08 Partial differential equations are fundamental to the modeling of natural phenomena The desire to understand the solutions of these equations has always had a prominent place in the efforts of mathematicians and has inspired such diverse fields as complex function theory functional analysis and algebraic topology This book meant for a beginning graduate audience provides a thorough introduction to partial differential equations

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## **Table of Contents Partial Differential Equations An Introduction**

1. Understanding the eBook Partial Differential Equations An Introduction
  - The Rise of Digital Reading Partial Differential Equations An Introduction
  - Advantages of eBooks Over Traditional Books
2. Identifying Partial Differential Equations An Introduction
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an eBook Partial Differential Equations An Introduction
  - User-Friendly Interface
4. Exploring eBook Recommendations from Partial Differential Equations An Introduction
  - Personalized Recommendations
  - Partial Differential Equations An Introduction User Reviews and Ratings
  - Partial Differential Equations An Introduction and Bestseller Lists

5. Accessing Partial Differential Equations An Introduction Free and Paid eBooks
  - Partial Differential Equations An Introduction Public Domain eBooks
  - Partial Differential Equations An Introduction eBook Subscription Services
  - Partial Differential Equations An Introduction Budget-Friendly Options
6. Navigating Partial Differential Equations An Introduction eBook Formats
  - ePUB, PDF, MOBI, and More
  - Partial Differential Equations An Introduction Compatibility with Devices
  - Partial Differential Equations An Introduction Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Partial Differential Equations An Introduction
  - Highlighting and Note-Taking Partial Differential Equations An Introduction
  - Interactive Elements Partial Differential Equations An Introduction
8. Staying Engaged with Partial Differential Equations An Introduction
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Partial Differential Equations An Introduction
9. Balancing eBooks and Physical Books Partial Differential Equations An Introduction
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Partial Differential Equations An Introduction
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Partial Differential Equations An Introduction
  - Setting Reading Goals Partial Differential Equations An Introduction
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Partial Differential Equations An Introduction
  - Fact-Checking eBook Content of Partial Differential Equations An Introduction
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

---

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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