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

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

(known as the heat conduction equation)

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

(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:

- (a) partial integration,
- (b) first and second order partial differentiation as explained in Chapter 34, and
- (c) 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.

and
$$u = \int 5 \cos x \sin t \, dt = (5 \cos x) \int \sin t \, dt$$

= $(5 \cos x)(-\cos t) + c$
= $-5 \cos x \cos t + f(x)$

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

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

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

$$u = \int [3x^2 \sin 2y + f(x)] dx$$

= $x^3 \sin 2y + (x)f(x) + g(y)$

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

Introduction To Partial Differential Equations

Arne Broman

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mathematical analysis providing a thorough source of problems and an inspiration for the development of methods <u>Introduction to Partial Differential Equations</u> Aslak Tveito, Ragnar Winther, 2004-10-04 This book teaches basic methods of partial differential equations and introduces related important ideas associated with the analysis of numerical methods for those partial differential equations Coverage details such topics as separation of variables Fourier analysis maximum principles and energy estimates The book introduces numerical methods in parallel to the classical theory and also includes many engaging exercises 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 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 Daniel J. Arrigo, 2022-06-01 This book is an introduction to methods for solving partial differential equations PDEs After the introduction of the main four PDEs that could be considered the cornerstone of Applied Mathematics the reader is introduced to a variety of PDEs that come from a variety of fields in the Natural Sciences

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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 coeffi cients 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 Introduction to Partial Differential Equations Arne Broman, 2012-04-27 The self contained treatment covers Fourier series orthogonal systems Fourier and Laplace transforms Bessel functions and partial differential equations of the first and second orders 266 exercises with solutions 1970 edition An Introduction to Partial <u>Differential Equations with MATLAB</u> Matthew P. Coleman, Vladislav Bukshtynov, 2024-08-01 The first two editions of An Introduction to Partial Differential Equations with MATLAB gained popularity among instructors and students at various universities throughout the world Plain mathematical language is used in a friendly manner to provide a basic introduction to partial differential equations PDEs Suitable for a one or two semester introduction to PDEs and Fourier series the book strives to provide physical mathematical and historical motivation for each topic Equations are studied based on method of solution rather than on type of equation This third edition of this popular textbook updates the structure of the book by increasing the role of the computational portion compared to previous editions. The redesigned content will be extremely useful for students of mathematics physics and engineering who would like to focus on the practical aspects of the study of PDEs without sacrificing mathematical rigor The authors have maintained flexibility in the order of topics In addition students will be able to use what they have learned in some later courses for example courses in numerical analysis optimization and PDE based programming Included in this new edition is a substantial amount of material on reviewing computational methods for solving ODEs symbolically and numerically visualizing solutions of PDEs using MATLAB s symbolic programming toolbox and applying various schemes from numerical analysis along with suggestions for topics of course projects Students will use sample MATLAB or Python codes available online for their practical experiments and for **An Introduction to Partial Differential Equations** completing computational lab assignments and course projects with MATLAB, Second Edition Matthew P. Coleman, 2013-06-26 An Introduction to Partial Differential Equations with

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