

Chapter 1. Heat Equation

Applied Partial Differential Equations with Fourier Series and Boundary Value Problems 5th Edition Richard Haberman Solutions Manual

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1.2.9 (d) Circular cross section means that $P = 2\pi r$, $A = \pi r^2$, and thus $P/A = 2/r$, where r is the radius. Also $\gamma = 0$.

1.2.9 (e) $u(x, t) = u(r)$ implies that

$$c\rho \frac{du}{dt} = -\frac{2h}{r}u.$$

The solution of this first-order linear differential equation with constant coefficients, which satisfies the initial condition $u(0) = u_0$, is

$$u(r) = u_0 \exp\left[-\frac{2h}{c\rho r}t\right].$$

Section 1.3

1.3.2 $\partial u/\partial x$ is continuous if $K_0(x_0-) = K_0(x_0+)$, that is, if the conductivity is continuous.

Section 1.4

1.4.1 (a) Equilibrium satisfies (1.4.14), $d^2u/dx^2 = 0$, whose general solution is (1.4.17), $u = c_1 + c_2x$. The boundary condition $u(0) = 0$ implies $c_1 = 0$ and $u(L) = T$ implies $c_2 = T/L$ so that $u = Tx/L$.

1.4.1 (d) Equilibrium satisfies (1.4.14), $d^2u/dx^2 = 0$, whose general solution (1.4.17), $u = c_1 + c_2x$. From the boundary conditions, $u(0) = T$ yields $T = c_1$ and $du/dx(L) = \alpha$ yields $\alpha = c_2$. Thus $u = T + \alpha x$.

1.4.1 (f) In equilibrium, (1.2.9) becomes $d^2u/dx^2 = -Q/K_0 = -x^2$, whose general solution (by integrating twice) is $u = -x^4/12 + c_1 + c_2x$. The boundary condition $u(0) = T$ yields $c_1 = T$, while $du/dx(L) = 0$ yields $c_2 = L^3/3$. Thus $u = -x^4/12 + L^3x/3 + T$.

1.4.1 (h) Equilibrium satisfies $d^2u/dx^2 = 0$. One integration yields $du/dx = c_2$, the second integration yields the general solution $u = c_1 + c_2x$.

$$\begin{aligned} x=0: \quad c_2 - (c_1 - T) &= 0 \\ x=L: \quad c_2 &= \alpha \text{ and thus } c_1 = T + \alpha. \end{aligned}$$

Therefore, $u = (T + \alpha) + \alpha x = T + \alpha(x + 1)$.

1.4.7 (a) For equilibrium:

$$\frac{d^2u}{dx^2} = -1 \text{ implies } u = -\frac{x^2}{2} + c_1x + c_2 \text{ and } \frac{du}{dx} = -x + c_1.$$

From the boundary conditions $\frac{du}{dx}(0) = 1$ and $\frac{du}{dx}(L) = \beta$, $c_1 = 1$ and $-L + c_1 = \beta$ which is consistent only if $\beta + L = 1$, if $\beta = 1 - L$, there is an equilibrium solution ($u = -\frac{x^2}{2} + x + c_2$). If $\beta \neq 1 - L$, there isn't an equilibrium solution. The difficulty is caused by the heat flow being specified at both ends and a source specified inside. An equilibrium will exist only if these three are in balance. This

Partial Differential Equations And Boundary Value Problems With Applications

Nakhlé H. Asmar



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Partial Differential Equations and Boundary-Value Problems with Applications Mark A. Pinsky, 2011 Building on the basic techniques of separation of variables and Fourier series the book presents the solution of boundary value problems for basic partial differential equations the heat equation wave equation and Laplace equation considered in various standard coordinate systems rectangular cylindrical and spherical Each of the equations is derived in the three dimensional context the solutions are organized according to the geometry of the coordinate system which makes the mathematics especially transparent Bessel and Legendre functions are studied and used whenever appropriate throughout the text The notions of steady state solution of closely related stationary solutions are developed for the heat equation applications to the study of heat flow in the earth are presented The problem of the vibrating string is studied in detail both in the Fourier transform setting and from the viewpoint of the explicit representation d Alembert formula Additional chapters include the numerical analysis of solutions and the method of Green s functions for solutions of partial differential equations The exposition also includes asymptotic methods Laplace transform and stationary phase With more than 200 working examples and 700 exercises more than 450 with answers the book is suitable for an undergraduate course in partial differential equations

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Differential Equations and Applications in Electrodynamics N. E. Tovmasyan, G. V. Zakaryan, L. Z. Gevorkyan, 1994 The book is devoted to boundary value problems for general partial differential equations Efficient methods of resolution of boundary value problems for elliptic equations based on the theory of analytic functions and having great theoretical and practical importance are developed A new approach to the investigation of electromagnetic fields is sketched permitting laws of propagation of electromagnetic energy at a great distance is outlined and asymptotic formulae for solutions of Maxwell's equation is obtained These equations are also applied to the efficient resolution of problems The book is based mostly on the investigation of the author a considerable part of which being published for the first time **Partial Differential**

Equations and Boundary Value Problems Viorel Barbu, 2013-06-29 The material of the present book has been used for graduate level courses at the University of Iași during the past ten years It is a revised version of a book which appeared in Romanian in 1993 with the Publishing House of the Romanian Academy The book focuses on classical boundary value problems for the principal equations of mathematical physics second order elliptic equations the Poisson equations heat equations and wave equations The existence theory of second order elliptic boundary value problems was a great challenge for nineteenth century mathematics and its development was marked by two decisive steps Undoubtedly the first one was the Fredholm proof in 1900 of the existence of solutions to Dirichlet and Neumann problems which represented a triumph of the classical theory of partial differential equations The second step is due to S. L. Sobolev 1937 who introduced the concept of weak solution in partial differential equations and inaugurated the modern theory of boundary value problems The classical theory which is a product of the nineteenth century is concerned with smooth continuously differentiable solutions and its methods rely on classical analysis and in particular on potential theory The modern theory concerns distributional weak solutions and relies on analysis of Sobolev spaces and functional methods The same distinction is valid for the boundary value problems associated with heat and wave equations Both aspects of the theory are present in this book though it is not exhaustive in any sense **Fourier Analysis and Boundary Value Problems** Enrique A. Gonzalez-Velasco, 1996-11-28

Fourier Analysis and Boundary Value Problems provides a thorough examination of both the theory and applications of partial differential equations and the Fourier and Laplace methods for their solutions Boundary value problems including the heat and wave equations are integrated throughout the book Written from a historical perspective with extensive biographical coverage of pioneers in the field the book emphasizes the important role played by partial differential equations in engineering and physics In addition the author demonstrates how efforts to deal with these problems have led to wonderfully significant developments in mathematics A clear and complete text with more than 500 exercises Fourier Analysis and Boundary Value Problems is a good introduction and a valuable resource for those in the field Topics are covered from a historical perspective with biographical information on key contributors to the field The text contains more than 500 exercises Includes practical applications of the equations to problems in both engineering and physics *Fourier*

Series and Boundary Value Problems James Ward Brown, 2001 Published by McGraw Hill since its first edition in 1941 this classic text is an introduction to Fourier series and their applications to boundary value problems in partial differential equations of engineering and physics It will primarily be used by students with a background in ordinary differential equations and advanced calculus There are two main objectives of this text The first is to introduce the concept of orthogonal sets of functions and representations of arbitrary functions in series of functions from such sets The second is a clear presentation of the classical method of separation of variables used in solving boundary value problems with the aid of those representations

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Boundary Value Problems for Systems of Differential, Difference and Fractional Equations Johnny Henderson, Rodica Luca, 2015-10-12 Boundary Value Problems for Systems of Differential Difference and Fractional Equations Positive Solutions discusses the concept of a differential equation that brings together a set of additional constraints called the boundary conditions As boundary value problems arise in several branches of math given the fact that any physical differential equation will have them this book will provide a timely presentation on the topic Problems involving the wave equation such as the determination of normal modes are often stated as boundary value problems To be useful in applications a boundary value problem should be well posed This means that given the input to the problem there exists a unique solution which depends continuously on the input Much theoretical work in the field of partial differential equations is devoted to proving that boundary value problems arising from scientific and engineering applications are in fact well posed

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book is based mostly on the investigation of the author a considerable part of which being published for the first time

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Partial Differential Equations: Methods, Applications And Theories (2nd Edition) Harumi Hattori, 2019-06-24 This is an introductory level textbook for partial differential equations PDEs It is suitable for a one semester undergraduate level or two semester graduate level course in PDEs or applied mathematics This volume is application oriented and rich in examples Going through these examples the reader is able to easily grasp the basics of PDEs Chapters One to Five are organized to aid understanding of the basic PDEs They include the first order equations and the three fundamental second order equations i.e. the heat wave and Laplace equations Through these equations we learn the types of problems how we pose the problems and the methods of solutions such as the separation of variables and the method of characteristics The modeling aspects are explained as well The methods introduced in earlier chapters are developed further in Chapters Six to Twelve They include the Fourier series the Fourier and the Laplace transforms and the Green's functions Equations in higher dimensions are also discussed in detail In this second edition a new chapter is added and numerous improvements have been made including the reorganization of some chapters Extensions of nonlinear equations treated in earlier chapters are also discussed Partial differential equations are becoming a core subject in Engineering and the Sciences This textbook will greatly benefit those studying in these subjects by covering basic and advanced topics in PDEs based on applications

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