

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

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

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

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

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 $u = -x^3/12 + c_1 + c_2x$. The boundary condition $u(0) = T$ yields $c_1 = T$, while $du/dx(L) = 0$ yields $c_2 = L^2/3$. Thus $u = -x^3/12 + L^2x/3 + T$.

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

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Boundary Value Problems with Maple *Applied Partial Differential Equations* J. David Logan, 2012-12-06 This textbook is for the standard one semester junior senior course that often goes by the title Elementary Partial Differential Equations or Boundary Value Problems The audience usually consists of students in mathematics engineering and the physical sciences The topics include derivations of some of the standard equations of mathematical physics including the heat equation the wave equation and the Laplace's equation and methods for solving those equations on bounded and unbounded domains Methods include eigenfunction expansions or separation of variables and methods based on Fourier and Laplace transforms Prerequisites include calculus and a post calculus differential equations course There are several excellent texts for this course so one can legitimately ask why one would wish to write another A survey of the content of the existing titles shows that their scope is broad and the analysis detailed and they often exceed five hundred pages in length These books generally have enough material for two three or even four semesters Yet many undergraduate courses are one semester courses The author has often felt that students become a little uncomfortable when an instructor jumps around in a long volume searching for the right topics or only partially covers some topics but they are secure in completely mastering a short well defined introduction This text was written to provide a brief one semester introduction to partial differential equations

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 - The Rise of Digital Reading Applied Partial Differential Equations Solutions Manual
 - Advantages of eBooks Over Traditional Books
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 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms

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 - User-Friendly Interface
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