

# 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

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

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

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

## 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  $u = c_1 + c_2x$ .

$$x = 0 : c_2 = (c_1 - T) = 0$$

$$x = L : c_2 = \alpha \text{ and thus } c_1 = T + \alpha.$$

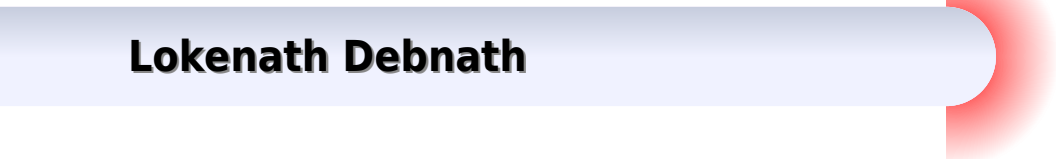
Therefore,  $u = (T + \alpha) + \alpha x = T + \alpha(x + 1)$ .

1.4.7 (a) For equilibrium:

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

# Haberman Mathematical Models Solutions

**Lokenath Debnath**



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Feedback Control Theory for Dynamic Traffic Assignment Pushkin Kachroo, Kaan M.A. Özbay, 2018-05-16 This book develops a methodology for designing feedback control laws for dynamic traffic assignment DTA exploiting the introduction of new sensing and information dissemination technologies to facilitate the introduction of real time traffic management in intelligent transportation systems Three methods of modeling the traffic system are discussed partial differential equations representing a distributed parameter setting continuous time ordinary differential equations ODEs representing a continuous time lumped parameter setting and discrete time ODEs representing a discrete time lumped parameter setting Feedback control formulations for reaching road user equilibrium are presented for each setting and advantages and disadvantage of using each are addressed The closed loop methods described are proposed expressly to avoid the counter productive shifting of bottlenecks from one route to another because of driver over reaction to routing information The second edition of Feedback Control Theory for Dynamic Traffic Assignment has been thoroughly updated with completely new chapters a review of the DTA problem and emphasizing real time feedback based problems an up to date presentation of pertinent traffic flow theory and a treatment of the mathematical solution to the traffic dynamics Techniques accounting for the importance of entropy are further new inclusions at various points in the text Researchers working in traffic control will find the theoretical material presented a sound basis for further research the continual reference to applications will help professionals working in highway administration and engineering with the increasingly important task of maintaining and smoothing traffic flow the extensive use of end of chapter exercises will help the graduate student and those new to the field to extend their knowledge

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that incorporate some kind of hard inequality constraint such as mechanical systems with impact electrical circuits with diodes as diodes permit current flow in only one direction and social and economic systems that involve natural or imposed limits such as traffic flow which can never be negative or inventory which must be stored within a given facility This book demonstrates that hard limits eschewed in most dynamical models are natural models for many dynamic phenomena and there are ways of creating differential equations with hard constraints that provide accurate models of many physical biological and economic systems The author discusses how finite and infinite dimensional problems are treated in a unified way so the theory is applicable to both ordinary differential equations and partial differential equations

**Linear Partial Differential Equations for Scientists and Engineers** Tyn Myint-U, Lokenath Debnath, 2007-04-05 This significantly expanded fourth edition is designed as an introduction to the theory and applications of linear PDEs The authors provide fundamental concepts underlying principles a wide range of applications and various methods of solutions to PDEs In addition to essential standard material on the subject the book contains new material that is not usually covered in similar texts and reference books It also contains a large number of worked examples and exercises dealing with problems in fluid mechanics gas dynamics optics plasma physics elasticity biology and chemistry solutions are provided



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