

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:

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

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C Cleary



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Transportation Research News, 1977 **Rasch Models for Measurement** David Andrich, 1988-03-01 Examines the use of Rasch measurement models in the social sciences This lucid introduction first focuses on general principles so the applications and algebra of the model can be readily understood Andrich then connects Rasch models to common procedures for social science measurement Avoiding polemics Andrich's presentation allows comparison between the Rasch models and other better known measurement approaches Rasch Models For Measurement concentrates on the simple logistic model the most elementary and commonly used of the Rasch models This excellent introduction uses one example from personality inventory throughout to provide continuity as the procedures and statistical arguments are explained Essential reading for all researchers and students who use measurement models A valuable asset to those of us who are concerned with teaching measurement issues My only quibble is that we have had to wait so long for what is a clear concise and very approachable introduction to a fairly complex area For its size this volume covers a lot of ground and it would seem to be an ideal book for postgraduate students with a special interest in psychometrics and professional psychologists who are concerned with measurement and assessment An ideal primer The Statistician Rasch Models for Measurement is a concise introduction to

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