

# Applied Partial Differential Equations with Fourier Series and Boundary Value Problems 5th Edition Solution Manual

## Chapter 1. Heat Equation

### Section 1.2

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  $y = 0$ .

1.2.9 (e)  $u(x, t) = u(t)$  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

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

### Section 1.3

1.3.2  $du/dx$  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  $du/dx = c_1$ , the second integration yields the general solution  $u = c_1 + c_2x$ .

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

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

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

1.4.7 (a) For equilibrium:

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

# Solution Manual Applied Partial Differential Equations Spiegel

**Muhammad Salik Javaid**



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