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- 1.2.9 (d) Circular cross section means that P = 2πr, A = πr², and thus P/A = 2/r, where r is the radius. Also γ = 0.
- 1.2.9 (c) u(x, t) = w(t) implies that

$$cpr \frac{dn}{dt} = -\frac{2h}{r}n$$
.

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

$$w(t) = w_0 \exp^{\frac{t}{2}} - \frac{2h}{\epsilon_{opr}} t^{\frac{n}{2}}.$$

Section 1.3

1.3.2 $\partial w/\partial x$ 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), d²u/dx² = 0, whose general solution is (1.4.17), u = c₁ + c₂x. The boundary condition u(0) = 0 implies c₁ = 0 and u(L) = T implies c₂ = T/L so that u = T.x/L.
- 1.4.1 (d) Equilibrium satisfies (1.4.14), d²w/dx² = 0, whose general solution (1.4.17), u = c1 + c2x. From the boundary conditions, u(0) = T yields T = c1 and che/dx(L) = a yields a = c2. Thus u = T + ax.
- 1.4.1 (f) In equilibrium, (1.2.9) becomes d²u/dx² = -Q/K₀ = -x², whose general solution (by integrating twice) is u = -x²/12+c₁+c₂x. The boundary condition u(0) = T yields c₁ = T, while du/dx(L) = 0 yields c₂ = L²/3. Thus u = -x²/12+L²x/3+T.
- 1.4.1 (h) Equilibrium satisfies d²u/dx² = 0. One integration yields du/dx = c₂, the second integration yields the general solution u = c₁ + c₂x.

$$x = 0$$
: $c_2 - (c_1 - T) = 0$
 $x = L$: $c_2 = \alpha$ and thus $c_1 = T + \alpha$.

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

1.4.7 (a) For equilibriums

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

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