

## SIO203C, Spring 2004, Assignment 4

### Problem 9.1

Solve the forced diffusion equation

$$u_t - \kappa u_{xx} = \cos kx, \quad u(x, 0) = 0.$$

### Solution

Substituting

$$u(x, t) = A(t) \cos kx$$

into the PDE, we find that the amplitude  $A(t)$  satisfies the ODE

$$\dot{A} = 1 - \kappa k^2 A, \quad A(0) = 0.$$

By inspection  $A_p = 1/\kappa k^2$  is a particular solution and so the general solution is

$$A = \frac{1}{\kappa k^2} + C e^{-\kappa k^2 t}.$$

We determine  $C$  so that the initial condition is satisfied. Thus finally

$$A = \frac{1}{\kappa k^2} \left[ 1 - e^{-\kappa k^2 t} \right].$$

### Problem 9.7

(i) Find the exponent  $\alpha$  which makes the similarity guess

$$u(x, t) = t^\alpha f(\eta), \quad \eta = x/2\sqrt{\kappa t} \tag{1}$$

a possible solution of the problem

$$u_t - \kappa u_{xx} = \delta(x) q t^{q-1}, \quad u(x, 0) = 0, \quad (q > 0).$$

(ii) Substitute the guess into the PDE and show that  $f(\eta)$  satisfies the ODE

$$f'' + 2\eta f' - 4\alpha f = 0. \tag{2}$$

(iii) Reduce the ODE above to quadratures in the special case  $q = 1$ .

# Introduction To Applied Mathematics Solution

**Arturo Cuomo**



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