

$$1. \frac{\partial^2 \phi}{\partial x^2} = \frac{\partial^2 \phi}{\partial t^2}$$

$$\left. \frac{\partial \phi}{\partial x} \right|_{x=0} = 0, \quad \left. \frac{\partial \phi}{\partial x} \right|_{x=l} = 0$$

$$\phi(x, 0) = f(x), \quad \left. \frac{\partial \phi}{\partial t} \right|_{t=0} = g(x)$$

$$\phi(x, t) = ?$$

$$\text{Let } \phi(x, t) = X(x)T(t) \rightarrow X''T = T''X \rightarrow \frac{X''}{X} = \frac{T''}{T} = -\lambda$$

$$\begin{cases} X'' + \lambda X = 0 \\ T'' + \lambda T = 0 \end{cases}$$

$$\text{先解 } X'' + \lambda X = 0$$

$$\begin{cases} \left. \frac{\partial \phi}{\partial x} \right|_{x=0} = 0 = X'(0)T(t) \\ \left. \frac{\partial \phi}{\partial x} \right|_{x=l} = 0 = X'(l)T(t) \end{cases} \Rightarrow \begin{cases} X'(0) = 0 \\ X'(l) = 0 \end{cases}$$

$$\Rightarrow \begin{cases} X'' + \lambda X = 0 \\ X'(0) = 0 \\ X'(l) = 0 \end{cases}$$

$$(i) \lambda < 0$$

$$\text{Let } \lambda = -p^2 (p > 0)$$

$$X'' - p^2 X = 0$$

$$\text{Let } X(x) = e^{\alpha x}, X'' = \alpha^2 e^{\alpha x}$$

$$\Rightarrow \alpha^2 e^{\alpha x} - p^2 e^{\alpha x} = 0$$

$$(\alpha^2 - p^2)e^{\alpha x} = 0$$

$$\alpha^2 = p^2$$

$$\alpha = \pm p (\text{相異實根})$$

Java Methods Chapter 8 Solutions

Michael Main



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