

# Eigenproblem

海大河海系 陳正宗

---

Standard eigenproblem (continuous system):

$$\begin{aligned}\mathbf{L}\{y(x)\} &= \lambda\{y(x)\} \\ -\frac{d^2y(x)}{dx^2} &= \lambda y(x) \\ \int_0^1 k(x,s)y(s)ds &= \lambda y(x)\end{aligned}$$

Standard eigenproblem (matrice system):

$$[A]\mathbf{x} = \lambda\mathbf{x}$$

General eigenproblem (continuous system):

$$\mathbf{L}\{y(x)\} = \lambda\{\rho(x)y(x)\}$$

Standard eigenproblem (matrice system):

$$[A]\mathbf{x} = \lambda[M]\mathbf{x}$$

---

海大河工系陳正宗 工數 (三)  
存檔:eig01.ctx 建檔:2001/1/15

---