Eigenproblem

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Standard eigenproblem (continuous system):

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

$$-\frac{d^2y(x)}{dx^2} = \lambda y(x)$$

$$\int_0^1 k(x,s)y(s)ds = \lambda y(x)$$

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):

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