

Finite Elements: Second-order Differential Equations

© Geoffrey A. Holman

Three lectures will demonstrate the derivation of finite element approximations and application to one-dimensional, semi-discretized differential equations. Problems provide additional practice with deriving, using, and extending finite element approximations.

1. ■ How to apply the finite element method to the following second-order differential equations:

$$\frac{d^2 u}{dx^2} + \frac{du}{dx} = -\sin(\pi x) \quad 0 \leq x \leq 1$$

2. ■ How to reduce the one-dimensional heat conduction problem using the finite element method to a finite number of degrees of freedom.

Finite Elements A Second Course

Peipei Pang



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