

# Finite Elements: Second-order Differential Equations

Dr. Grottel, TU Braunschweig

Three lectures will introduce the formulation and derivation of boundary value problems for one-dimensional second-order differential equations. Problems from various fields of structural analysis, such as structural mechanics and acoustics,

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

$$\frac{d}{dx} \left( \frac{d\phi}{dx} \right) + \frac{d}{dx} \left( \frac{d\psi}{dx} \right) = \text{const.}$$

2. How to reduce the second-order equations to a system of first-order ordinary differential equations by using the boundary and interface conditions in their natural or strong form.

# Finite Elements A Second Course

**Clifford Lane**



## **Finite Elements A Second Course:**

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