

## The finite element method for solid and structural mechanics

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### Abstrak

The finite element method for solid and structural mechanics is the key text and reference for engineers, researchers and senior students dealing with the analysis and modeling of structures, from large civil engineering projects such as dams to aircraft structures and small engineered components.

This edition brings a thorough update and rearrangement of the book's content, including new chapters on :

- Material constitution using representative volume elements
- Differential geometry and calculus on manifolds
- Background mathematics and linear shell theory

Focusing on the core knowledge, mathematical and analytical tools needed for successful structural analysis and modeling.