



# Structural Mechanics: Modelling and Analysis of Frames and Trusses

*Karl-Gunnar Olsson, Ola Dahlblom*

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**Structural Mechanics: Modelling and Analysis of Frames and Trusses** Karl-Gunnar Olsson, Ola Dahlblom

**Textbook covers the fundamental theory of structural mechanics and the modelling and analysis of frame and truss structures**

- Deals with modelling and analysis of trusses and frames using a systematic matrix formulated displacement method with the language and flexibility of the finite element method
- Element matrices are established from analytical solutions to the differential equations
- Provides a strong toolbox with elements and algorithms for computational modelling and numerical exploration of truss and frame structures
- Discusses the concept of stiffness as a qualitative tool to explain structural behaviour
- Includes numerous exercises, for some of which the computer software CALFEM is used. In order to support the learning process CALFEM gives the user full overview of the matrices and algorithms used in a finite element analysis

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