



Introductory Structural Analysis Example Problems

Stuart Nielsen

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A book of over fifty structural analysis example problems for engineers and engineering students taking courses in introductory structural analysis.

Example problems cover, equations of equilibrium, shear & moment diagrams, deflections and indeterminate structures using moment distribution. Two dimensional beams, frames and truss systems are used in the examples.

The Author has strived to present problems that would be found in a typical engineering class, in a hand drawn style that will be familiar to any student who has put pencil to engineering paper. (United States customary units)

Equations of Equilibrium

Shear and Moment Diagrams

Virtual Work Deflections

Visual Integration Deflections

Force Method using Virtual Work

Force Method using Visual Integration

Moment Distribution Method

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