





Finite Element Analysis

Exercise: warehouse structure (oversimplified, for teaching purposes only)

Outlines:

- Definition of cross-sectional data through real constants or section.
- 3D beam cross-section orientation.
- On screen visualization of beam cross-sections and elements reference system.
- Use of different element types.
- Use of beams of different cross-sections.
- Exploitation of problem symmetry.
- Handling of internal constraints (hinges, ball-joints, etc).
- Copy features of the solid modeler.
- Post-processing: quantitative visualization of significant problem quantities.

I Cortoco

Machine Design (2013-2014)