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Linear Statics. Volume 1 : The Basis and Solids. Eugenio Oñate.

The two volumes of this book cover most of the theoretical and computational aspects of the linear static analysis of structures with the Finite Element Method (FEM).

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by a set of appropriate finite elements interconnected at discrete points called nodes.

## **Finite element method in structural mechanics - Wikipedia**

AxisVM - Structural analysis software for steel, concrete, wood, aluminum or composite structures. Design of steel and concrete beams, columns, slabs, membranes, shells. BeamElas - Versatile finite element program for the analysis of any combination of foundation shape and cross section, including pipe and beam, resting on an elastic foundation ...

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### **Structural analysis with the finite element method ...**

The most commonly used numerical approximation in structural analysis is the Finite Element Method. The finite element method approximates a structure as an assembly of elements or components with various forms of connection between them and each element of which has an associated stiffness.

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