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In finite element analysis, a domain is a continuous system (region) over which the laws of physics govern. In structural engineering, a domain could be a beam or a complete building frame. In mechanical engineering, a domain could be a piece of machine parts or a thermal field.

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This website presents the fundamental principles of structural finite element analysis (FEA), and includes many examples to clarify these principles. It reviews basic linear elastic mechanics that are the foundation of FEA, then proceeds to cover finite element theory and applications.

### **Finite Element Analysis**

analysis-and-design technique that it is essential that undergraduate engineering students have a basic knowledge of the theory and applications of the technique. Toward that objective, I developed and taught an undergraduate "special topics"

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Since the middle of the 20th century, intricate issues in civil, aeronautical, and nuclear engineering necessitated the development of finite element analysis. An extension of integral calculus, finite element analysis computes stress points, loads, and other fundamental physical characteristics based on mathematical equations.

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Finite Element Method January 12, 2004 ... Fundamental Concepts (4) Finite element: Small piece of structure A field quantity is interpolated by a polynomial over an element. ... Robert Cook et al., Concepts and Applications of Finite Element Analysis, John Wiley & Sons, 1989

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