

Numerical Methods In Structural Mechanics

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The book concentrates on the most efficient and reliable methods which have become widely adopted. This book provides a clear understanding of the nature and theoretical basis of the most widely used numerical methods in structural mechanics—the finite element method (FEM) and the boundary element method (BEM)—while at the same time presenting the most promising directions for future developments.

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This chapter presents numerical methods that are used for the dynamic analysis of structures in offshore engineering. Structural dynamic effects are important, dominate the response and should be accounted for in the design of offshore structures.

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It will cover any type of numerical techniques related to the finite element method; boundary element method; finite difference and finite volume methods; and all other mesh reduction methods. We aim to include both research and advanced practical topics, with particular emphasis on computational structural mechanics and their application to engineering problems.

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numerical methods in structural mechanics, computer techniques, and computer capabilities. Some papers discuss the analytical basis of the computer technique most widely used in software, that is, the finite element method.

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The numerical calculation consists in applying a suitable integration formula to the integrals in (1.215). This approach is more versatile than the analytical derivation as we could apply it to elements with variable cross sections or with complicated load distributions.

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