

Practical finite element analysis for mechanical engineers

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Résumé ou extrait : Engineers, in various industries all over the world, increasingly use Finite Element Analysis (FEA) to obtain solutions to problems that cannot be solved with classical methods. However, to do so, FEA analysts must employ proper modeling techniques; otherwise, their solutions may be incorrect. While there is much information in published literature regarding the theory of the finite element method, there is little on practical FEA modeling techniques for mechanical engineers. Engineers often learn basic FEA rules that are presented in textbooks, but the vast majority learn FEA through years of experience developing finite element models. This book offers the best practical methods and guidelines available for the development and validation of finite element models. Its objective is to provide mechanical structural engineers with the keys to developing accurate and reliable finite element models by avoiding the most frequent errors

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