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the finite element method fem has become an indispensable technology for the modelling and simulation of engineering systems written for engineers and students alike the aim of the book is to provide the necessary theories and techniques of the fem for readers to be able to use a commercial fem package to solve primarily linear problems in mechanical and civil engineering with the main focus on structural mechanics and heat transfer fundamental theories are introduced in a straightforward way and state of the art techniques for designing and analyzing engineering systems including microstructural systems are explained in detail case studies are used to demonstrate these theories methods techniques and practical applications and numerous diagrams and tables are used throughout the case studies and examples use the commercial software package abaqus but the techniques explained are equally applicable for readers using other applications including nastran ansys marc etc a practical and accessible guide to this complex yet important subject covers modeling techniques that predict how components will operate and tolerate loads stresses and strains in reality

the finite element method in engineering fifth edition provides a complete introduction to finite element methods with applications to solid mechanics fluid mechanics and heat transfer written by bestselling author s s rao this book provides students with a thorough grounding of the mathematical principles for setting up finite element solutions in civil mechanical and aerospace engineering applications the new edition of this textbook includes examples using modern computer tools such as

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written for practicing engineers and students alike this book emphasizes the role of finite element modeling and simulation in the engineering design process it provides the necessary theories and techniques of the fem in a concise and easy to understand format and applies the techniques to civil mechanical and aerospace problems updated throughout for current developments in fem and fem software the book also includes case studies diagrams illustrations and tables to help demonstrate the material plentiful diagrams illustrations and tables demonstrate the material covers modeling techniques that predict how components will operate and tolerate loads stresses and strains in reality full set of powerpoint presentation slides that illustrate and support the book available on a companion website

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