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The finite element method is the most widely used method for solving problems of engineering and mathematical models. Typical problem areas of interest include the traditional fields of structural analysis, heat transfer, fluid flow, mass transport, and electromagnetic potential. The FEM is a particular numerical method for solving partial differential equations in two or three space variables. To solve a problem, the FEM subdivides a large system into smaller, simpler parts that are called fini

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used in the industry with experienced and in particular beginners so as to reduce the learning curve & avoid reinvention of the cycle. Emphasis is on simple language, practical usage, minimum mathematics & no pre-requisites. All basic concepts of engineering are included as & where it is required. It is hoped that this book would be helpful to beginners, experienced users, managers, group leaders and as additional reading material for university courses.

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The book retains its strong conceptual approach, clearly examining the mathematical underpinnings of FEM, and providing a general approach of engineering application areas. Known for its detailed, carefully selected example problems and extensive selection of homework problems, the author has comprehensively covered a wide range of engineering areas making the book appropriate for all engineering majors, and underscores the wide range of use FEM has in the professional world

Designed for students without in-depth

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mathematical training, this text includes a comprehensive presentation and analysis of algorithms of time-dependent phenomena plus beam, plate, and shell theories. Solution guide available upon request.

A presentation of detailed theory and computer programs which can be used for stress analysis. The finite element formulations are developed through easy-to-follow derivations for the analysis of plane stress or strain and axisymmetric solid, plate-bending, three dimensional solid and shell problems.

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This book is intended for presenting the basic concepts of Finite Element Analysis applied to several engineering applications. Salient Features: 1.Covers several modules of elasticity, heat conduction, eigenvalue and fluid flow analysis which are necessary for a student of Mechanical Engineering. 2.Finite Element formulations have been presented using both global and natural coordinates. It is important for providing smooth transition form formulation in global coordinates to natural coordinates. 3.Special focus has been given to heat conduction problems and fluid

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flows which are not sufficiently discussed in other textbooks. 4. Important factors affecting the formulation have been included as Miscellaneous Topics. 5. Several examples have been worked out in order to highlight the applications of Finite Element Analysis. New to this Edition: Apart from moderately revising the whole text three new chapters "Dynamic Analysis", "Non-linear Analysis", "Bending of Thin Plates", three appendices and short questions and answers have been added in the present edition to make it more useful.

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In teaching an introduction to the finite element method at the undergraduate level, a prudent mix of theory and applications is often sought. In many cases, analysts use the finite element method to perform parametric studies on potential designs to size parts, weed out less desirable design scenarios, and predict system behavior under load. In this book, we discuss common pitfalls encountered by many finite element analysts, in particular, students encountering the method for the first time. We present a variety of simple problems in axial, bending, torsion, and shear loading that combine the students'

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knowledge of theoretical mechanics, numerical methods, and approximations particular to the finite element method itself. We also present case studies in which analyses are coupled with experiments to emphasize validation, illustrate where interpretations of numerical results can be misleading, and what can be done to allay such tendencies. Challenges in presenting the necessary mix of theory and applications in a typical undergraduate course are discussed. We also discuss a list of tips and rules of thumb for applying the method in practice. Table of Contents:
Preface / Acknowledgments / Guilty Until

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Proven Innocent / Let's Get Started / Where We Begin to Go Wrong / It's Only a Model / Wisdom Is Doing It / Summary / Afterword / Bibliography / Authors' Biographies

With The Authors Experience Of Teaching The Courses On Finite Element Analysis To Undergraduate And Postgraduate Students For Several Years, The Author Felt Need For Writing This Book. The Concept Of Finite Element Analysis, Finding Properties Of Various Elements And Assembling Stiffness Equation Is Developed Systematically By Splitting The Subject Into Various

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Chapters. The Method Is Made Clear By Solving Many Problems By Hand Calculations. The Application Of Finite Element Method To Plates, Shells And Nonlinear Analysis Is Presented. After Listing Some Of The Commercially Available Finite Element Analysis Packages, The Structure Of A Finite Element Program And The Desired Features Of Commercial Packages Are Discussed.

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