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BASIC APPROACH: Comprehensive -- this text explores the "full range" of finite element methods used in engineering practice for actual applications in computer-aided design. It provides not only an introduction to finite element methods and the commonality in the various techniques, but explores state-of-the-art methods as well -- with a focus on what are deemed to become "classical techniques" -- procedures that will be "standard and authoritative" for finite element analysis for years to come. FEATURES: presents in sufficient depth and breadth elementary concepts AND advanced techniques in statics, dynamics, solids, fluids, linear and nonlinear analysis. emphasizes both the physical and mathematical characteristics of procedures. presents some important mathematical conditions on finite element procedures. contains an abundance of worked-out examples and various complete program listings. includes many exercises/projects that often require the use of a computer program.

This book presents a modern continuum mechanics and mathematical framework to study shell physical behaviors, and to formulate and evaluate finite element procedures. With a view towards the synergy that results from physical and mathematical understanding, the book focuses on the fundamentals of shell theories, their mathematical bases and finite element discretizations. The complexity of the physical behaviors of shells is analysed, and the difficulties to obtain uniformly optimal finite element procedures are identified and studied. Some modern finite element methods are presented for linear and nonlinear analyses. In this Second Edition the authors give new developments in the field and - to make the book more complete - more explanations throughout the text, an enlarged section on general variational formulations and new sections on 3D-shell models, dynamic analyses, and triangular elements. The analysis of shells represents one of the most challenging fields in all of mechanics, and encompasses various fundamental and generally applicable components. Specifically, the material presented in this book regarding geometric descriptions, tensors and mixed variational formulations is fundamental and widely applicable also in other areas of mechanics.

With the rapid development of computational capabilities, nonlinear finite element analysis in structural mechanics has become an important field of research. Its objective is the realistic assessment of the actual behavior of structures by numerical methods. This requires that all nonlinear effects, such as the nonlinear characteristics of the material and large deformations be taken into account. The activities in this field being worldwide, direct interaction between the various research groups is necessary to coordinate future research and to overcome the time gap between the generation of new results and their appearance in the literature. The first U.S.-Germany Symposium was held in 1976 at the Massachusetts Institute of Technology. Under the general topic "Formulations and Computational Algorithms in Finite Element Analysis" it provided an opportunity for about 20 researchers from each country to present lectures, hold discussions, and establish mutual contacts. The success of this first symposium was so encouraging that it seemed natural to organize a second bilateral meeting, this time in Germany, and to invite researchers from other European countries as well.

The authors present a modern continuum mechanics and mathematical framework to study shell physical behaviors, and to formulate and evaluate finite element procedures. With a view towards the synergy that results from physical and mathematical understanding, the book focuses on the fundamentals of shell theories, their mathematical bases and finite element discretizations. The complexity of the physical behaviors of shells is analysed, and the difficulties to obtain uniformly optimal finite element procedures are identified and studied. Some modern finite element methods are presented for linear and nonlinear analyses. A state of the art monograph by leading experts.

Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.