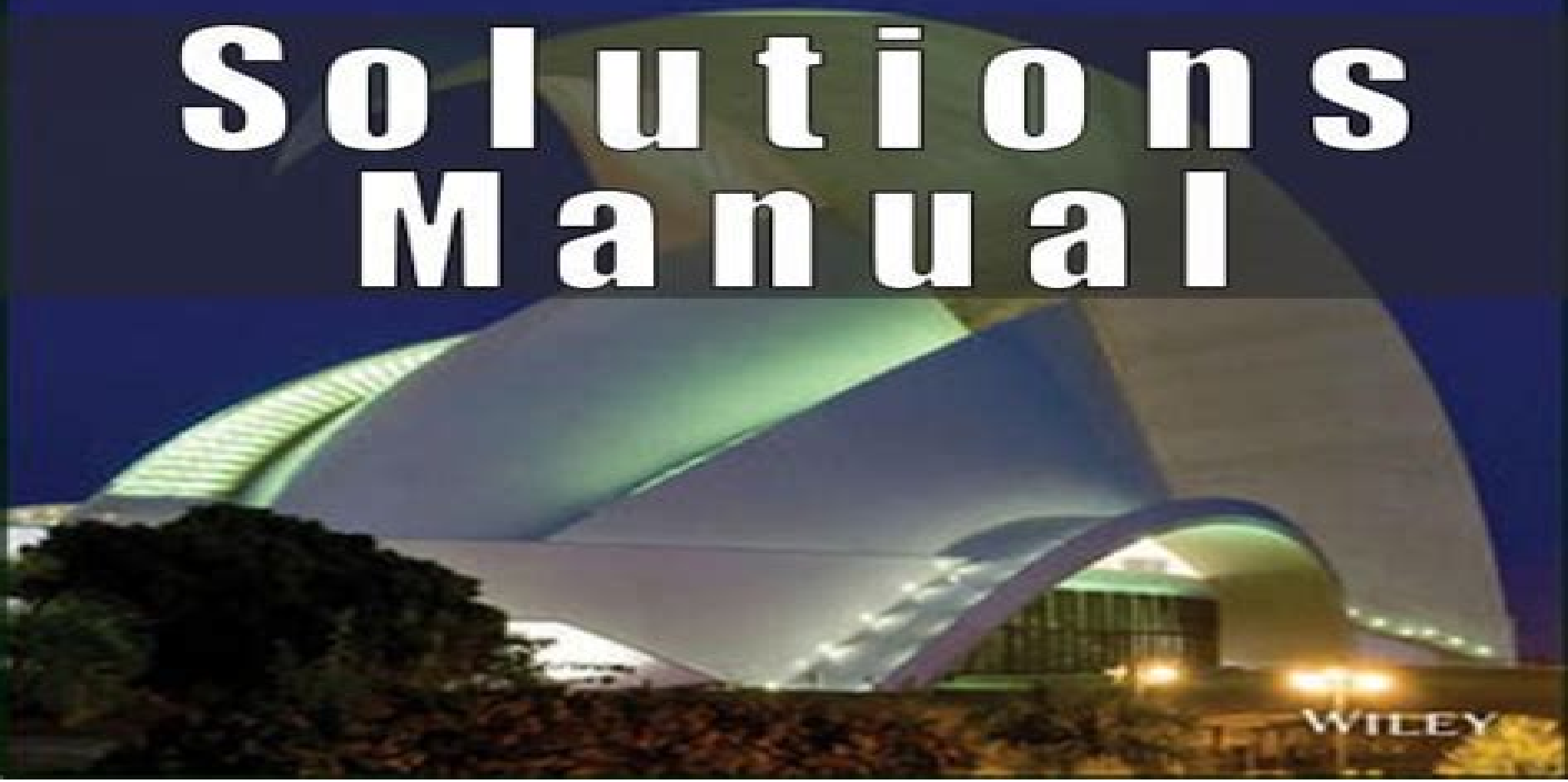


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finite element method at the undergraduate level a prudent mix of theory and applications is often sought In many cases analysts use the finite element method to perform parametric studies on potential designs to size parts weed out less desirable 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 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 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

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A Project-Based Introduction to Computational Statics Andreas

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that has revolutionized the field to solve problems while retaining all the basic principles and foundational information needed for mastering advanced engineering mechanics principles and acquiring problem solving skills The authors have updated the text to include the integration of numerical approaches and MATLAB computer programs into the body of the text for carrying out analysis of truss beam and frame structures The third edition also offers an update to Chapters 1 through 4 as follows All material related to determinate trusses and cables is moved to Chapter 1 as most students most likely were introduced to these topics in a course on statics Thus Chapter 1 of the current edition is a review of statics The concepts of stress and strain and associated examples were moved from Chapter 1 to Chapter 2 with additional discussion of concepts and examples Chapter 3 in the new edition deals with stress strain relations with applications to determinate systems including trusses and thin walled pressure vessels Indeterminate trusses and associated computer implementation have been moved from Chapter 4 of the second edition to Chapter 7 of the current edition Other indeterminate systems from old Chapter 4 have been retained in new Chapter 4 The second major change is the updating of all the computational tools from FORTRAN to MATLAB and providing interactive tools i e APPs in Chapters 7 10 and 12 of the new edition All computational examples from Chapters 4 and 6 on trusses and beams of the second edition are consolidated into a new chapter Chapter 7 with numerous examples and applications of newly included TRUSS2d BEAM and FRAME2d APPs Chapter 7 also introduces finite element analysis of plane frames a new topic The authors have also added new examples and exercise problems throughout the book that allow students to practice and apply the concepts and formulas to solve problems

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