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Analyze and Solve Real-World Machine Design Problems Using SI Units Mechanical Design of Machine Components, Second Edition: SI Version strikes a balance between method and theory, and fills a void in the world of design. Relevant to mechanical and related engineering curricula, the book is useful in college classes, and also serves as a reference for practicing engineers. This book combines the needed engineering mechanics concepts, analysis of various machine elements, design procedures, and the application of numerical and computational tools. It demonstrates the means by which loads are resisted in mechanical components, solves all examples and problems within the book using SI units, and helps readers gain valuable insight into the mechanics and design methods of machine components. The author presents structured, worked examples and problem sets that showcase analysis and design techniques, includes case studies that present different aspects of the same design or analysis problem, and links together a variety of topics in successive chapters. SI units are used exclusively in examples and problems, while some selected tables also show U.S. customary (USCS) units. This book also presumes knowledge of the mechanics of materials and material properties. New in the Second Edition: Presents a study of two entire real-life machines Includes Finite Element Analysis coverage supported by examples and case studies Provides MATLAB solutions of many problem samples and case studies included on the book's website Offers access to additional information on selected topics that includes website addresses and open-ended web-based problems Class-tested and divided into three sections, this comprehensive book first focuses on the fundamentals and covers the basics of loading, stress, strain, materials, deflection, stiffness, and stability. This includes basic concepts in design and analysis, as well as definitions related to properties of engineering materials. Also discussed are detailed equilibrium and energy methods of analysis for determining stresses and deformations in variously loaded members. The second section deals with fracture mechanics, failure criteria, fatigue phenomena, and surface damage of components. The final section is dedicated to machine component design, briefly covering entire machines. The fundamentals are applied to specific elements such as shafts, bearings, gears, belts, chains, clutches, brakes, and springs.

Now considered a classic in its field, this book provides a comprehensive survey of machine elements and analytical design methods. (Midwest).

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Provides undergraduates and practicing engineers with an understanding of the theory and applications behind the fundamental concepts of machine elements. This text includes examples and homework problems designed to test student understanding and build their skills in analysis and design.

Modern machine design challenges engineers with a myriad of nonlinear problems, among them fatigue, friction, plasticity, and excessive deformation. Today's advanced numerical computer programs bring optimal solutions to these complex problems within reach, but not without a trained and experienced overseer. Nonlinear Problems in Machine Design provides that training and experience. It acquaints readers with the modern analytical methods of machine design and enables them to use those methods in daily applications. The authors first build the theoretical foundation, then focus on the application of the finite element method to machine design problems. They offer practical examples with solutions generated using both the ANSYS and MSC.NASTRAN finite element programs, demonstrating the reliability of the results, offering readers experience with the two most widely used programs in industry. Developed through the authors' extensive knowledge of engineering theory and their experience in verifying the accuracy and applicability of computer generated solutions, this book helps ensure foolproof results when designing machine parts. Nonlinear Problems in Machine Design is unique in its focus, will prove equally valuable to students and practitioners, and appears destined to become a standard in its field.

The "Classic Edition" of Shigley & Mischke, Mechanical Engineering Design 5/e provides readers the opportunity to use this well-respected version of the bestselling textbook in Machine Design. Originally published in 1989, MED 5/e provides a balanced overview of machine element design, and the background methods and mechanics principles needed to do proper analysis and design. Content-wise the book remains unchanged from the latest reprint of the original 5th edition. Instructors teaching a course and needing problem solutions can contact McGraw-Hill Account Management for a copy of the Instructor Solutions Manual.

• Designed for first-time SOLIDWORKS Simulation users • Focuses on examples commonly found in Design of Machine Elements courses • Many problems are accompanied by solutions using classical equations • Combines step-by-step tutorials with detailed explanations of why each step is taken Analysis of Machine Elements Using SOLIDWORKS Simulation 2021 is written primarily for first-time SOLIDWORKS Simulation 2021 users who wish to understand finite element analysis capabilities applicable to stress analysis of mechanical elements. The focus of examples is on problems commonly found in introductory, undergraduate, Design of Machine Elements or similarly named courses. In order to be compatible with most machine design textbooks, this text begins with problems that can be solved with a basic understanding of mechanics of materials. Problem types quickly migrate to include states of stress found in more specialized situations common to a design of mechanical elements course. Paralleling this progression of problem types, each chapter introduces new software concepts and capabilities. Many examples are accompanied by problem solutions based on use of classical equations for stress determination. Unlike many step-by-step user guides that only list a succession of steps, which if followed correctly lead to successful solution of a problem, this text attempts to provide insight into why each step is performed. This approach amplifies two fundamental tenets of this text. The first is that a better understanding of course topics related to stress determination is realized when classical methods and finite element solutions are considered together. The second tenet is that finite element solutions should always be verified by checking, whether by classical stress equations or experimentation. Each chapter begins with a list of learning objectives related to specific capabilities of the SOLIDWORKS Simulation program introduced in that chapter. Most software capabilities are repeated in subsequent examples so that users gain familiarity with their purpose and are capable of using them in future problems. All end-of-chapter problems are accompanied by evaluation "check sheets" to facilitate grading assignments. Table of Contents Introduction 1. Stress Analysis Using SOLIDWORKS Simulation 2. Curved Beam Analysis 3. Stress Concentration Analysis 4. Thin and Thick Wall Pressure Vessels 5. Interference Fit Analysis 6. Contact Analysis 7. Bolted Joint Analysis 8. Design Optimization 9. Elastic Buckling 10. Fatigue Testing Analysis 11. Thermal Stress Analysis Appendix A: Organizing Assignments Using MS Word Appendix B: Alternate Method to Change Screen Background Color Index

Taking a failure prevention perspective, this book provides engineers with a balance between analysis and design. The new edition presents a more thorough treatment of stress analysis and fatigue. It integrates the use of computer tools to provide a more current view of the field. Photos or images are included next to descriptions of the types and uses of common materials. The book has been updated with the most comprehensive coverage of possible failure modes and how to design with each in mind. Engineers will also benefit from the consistent approach to problem solving that will help them apply the material on the job.

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