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CD-ROM contains: Working Model 2D Homework Edition 4.1 -- Working Model simulations -- Author-written programs (including FOURBAR and DYNACAM) -- Scripted Matlab analysis and simulations files -- FE Exam Review for Kinematics and Applied Dynamics.

For courses in Machine Design. Machine Design, 4/e, presents the subject matter in an up-to-date and thorough manner with a strong design emphasis. This textbook emphasizes both failure theory and analysis as well as emphasizing the synthesis and design aspects of machine elements. The book points out the commonality of the analytical approaches needed to design a wide variety of elements and emphasizes the use of computer-aided engineering as an approach to the design and analysis of these classes of problems.

Robert L. Norton's sixth edition of DESIGN OF MACHINERY continues the tradition of this best-selling book through its balanced coverage of analysis and design and outstanding use of realistic engineering examples. Through its reader-friendly style of writing, clear exposition of complex topics, and emphasis on synthesis and design, the text succeeds in conveying the art of design as well as the use of modern tools needed for analysis of the kinematics and dynamics of machinery. Topics are explained verbally and visually, often through the use of software, to enhance student understanding. Accompanying the book is an updated online learning center.

Covering the fundamental principles of bearing selection, design, and tribology, this book discusses basic physical principles of bearing selection, lubrication, design computations, advanced bearings materials, arrangement, housing, and seals, as well as recent developments in bearings for high-speed aircraft engines. The author explores unique solutions to challenging design problems and presents rare case studies, such as hydrodynamic and rolling-element bearings in series and adjustable hydrostatic pads for large bearings. He focuses on the design considerations and calculations specific to hydrodynamic journal bearings, hydrostatic bearings, and rolling element bearings.

Analysis of Machine Elements Using SOLIDWORKS Simulation 2018 is written primarily for first-time SOLIDWORKS Simulation 2018 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. New in the 2018 Edition The 2018 edition of this book features a new chapter exploring fatigue analysis using stress life methods. Understanding the fatigue life of a product is a critical part of the design process. This chapter focuses on the inputs needed to define a fatigue analysis in SOLIDWORKS Simulation and the boundary conditions necessary to obtain valid results.

Analysis of Machine Elements Using SOLIDWORKS Simulation 2019 is written primarily for first-time SOLIDWORKS Simulation 2019 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.

Analysis of Machine Elements Using SOLIDWORKS Simulation 2017 is written primarily for first-time SOLIDWORKS Simulation 2017 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 an 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.

Analysis of Machine Elements Using SOLIDWORKS Simulation 2020 is written primarily for first-time SOLIDWORKS Simulation 2020 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.

Mechanics of Mechanisms and Machines provides a practical approach to machine statics, kinematics, and dynamics for undergraduate and graduate students and mechanical engineers. The text uses a novel method for computation of mechanism and robot joint positions, velocities, accelerations; and dynamics and statics using matrices, graphs, and generation of independent equations from a matroid form. The computational methods presented can be used for industrial and commercial robotics applications where accurate and quick mechanism/robot control is key. The book includes many examples of linkages, cams, and geared mechanisms, both planar and spatial types, having open or multiple cycles. Features • Presents real-world examples to help in the design process of planar and spatial mechanisms • Serves as a practical guide for the design of new products using mechanical motion analysis • Analyzes many applications for gear trains and auto transmissions, robotics and manipulation, and the emerging field of biomechanics • Presents novel matrix computational methods, ideal for the development of efficient computer implementations of algorithms for control or simulation of mechanical linkages, cams, and geared mechanisms • Includes mechanism animations and result data tables as well as comparisons between matrix-based equation results implemented using Engineering Equation Solver (EES) and results for the same mechanisms simulated using SolidWorks.

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