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Fundamentals of Machine Component Design presents a thorough introduction to the concepts and methods essential to mechanical engineering design, analysis, and application. In-depth coverage of major topics, including free body diagrams, force flow concepts, failure theories, and fatigue design, are coupled with specific applications to bearings, springs, brakes, clutches, fasteners, and more for a real-world functional body of knowledge. Critical thinking and problem-solving skills are strengthened through a graphical procedural framework, enabling the effective identification of problems and clear presentation of solutions. Solidly focused on practical applications of fundamental theory, this text helps students develop the ability to conceptualize designs, interpret test results, and facilitate improvement. Clear presentation reinforces central ideas with multiple case studies, in-class exercises, homework problems, computer software data sets, and access to supplemental internet resources, while appendices provide extensive reference material on processing methods, joinability, failure modes, and material properties to aid student comprehension and encourage self-study.

Juvinall and Marshek's Fundamentals of Machine Component Design continues to focus on the fundamentals of component design -- free body diagrams, force flow concepts, failure theories, and fatigue design, with applications to fasteners, springs, bearings, gears, clutches, and brakes. Problem-solving skills are developed by the implementation of a proven methodology which provides a structure for accurately formulating problems and clearly presenting solutions. The seventh edition includes additional coverage of composites, the material selection process, and wear/wear theory, along with new and updated examples and homework problems.

To solve mechanical component problems, you need a solid understanding of the fundamentals of component design as well as gook engineering judgment. Juvivall and Marshek's Fundamentals of Machine Component Design, Fourth Edition will help you develop both, so you can apply tour knowledge, skills, and imagination to professionals engineering problems.

Market_Desc: Mechanical Engineers Special Features: · Covers all the basics and introduces a methodology for solving machine component problems · Covers a wide variety of machine components, from threaded fasteners to springs to shafts and gears to clutches and brakes · Also provides an illuminating case study involving a complete machine that spotlights component interrelationships About The Book: This indispensable reference reviews the basics of mechanics, strength of materials and materials properties and applies these fundamentals to specific machine components. Throughout, the authors stress and promote precise thought in the solution of mechanical component design problems.

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The latest edition of Juvinall/Marshek's Fundamentals of Machine Component Design focuses on sound problem solving strategies and skills needed to navigate through large amounts of information. Revisions in the text include coverage of Fatigue in addition to a continued concentration on the fundamentals of component design. Several other new features include new learning objectives added at the beginning of all chapters; updated end-of-chapter problems, the elimination of weak problems and addition of new problems; updated applications for currency and relevance and new ones where appropriate; new system analysis problems and examples; improved sections dealing with Fatigue; expanded coverage of failure theory; and updated references.

Valued as a standard in the course, Juvinall and Marshek?s Fundamentals of Machine Component Design continues to focus on the fundamentals of component design - free body diagrams, force flow concepts, failure theories, and fatigue design, with applications to fasteners, springs, bearings, gears, clutches, and brakes. Problem-solving skills are developed by the implementation of a proven methodology which provides a structure for accurately formulating problems and clearly presenting solutions. This edition includes additional coverage of composites, the material selection process, and wear/wear theory, along with new and updated examples and homework problems.

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.