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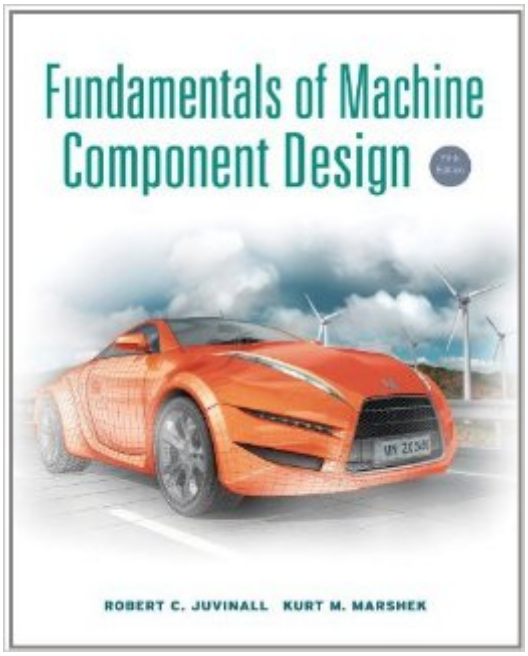
Fundamentals Of Machine Component Design, 5th Edition



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Synopsis

While focusing on the fundamentals of component design, this practical text helps readers learn how to solve engineering problems that involve mechanical components. A proven problem-solving methodology guides readers through the process of formulating machine component problems accurately and presenting solutions clearly. In addition, numerous solved examples and end-of-chapter problems help readers master the material. Graphical procedures help readers visualize the solution format, develop added insight about the significance of the results, and determine how the design can be improved. FREE WITH THE UPDATED EDITION A new CD-ROM, containing worked solutions to 80 problems in the text and an interactive case study featuring animation, disassembly, and re-engineering of a transmisson based on the Chrysler 42LE. NEW FEATURES OF THE THIRD EDITION Open-ended design problems have been added to most chapters. These problems are based on making decisions that involve materials, geometry, and operating conditions. Material selection charts are now included as an aid in choosing appropriate materials for specific applications. Finite element analysis is covered in several section to provide an introduction to this useful tool. Web site addresses are added throughout the text, providing access to additional information on topics ranging from industrial standards to properties of materials. Innovative, web-based problems are integrated throughout the text, requiring use of the internet to solve design problems. The text has been completely updated with new illustrations and photographs. --This text refers to an out of print or unavailable edition of this title.

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Customer Reviews

This is a textbook for mechanical engineering design and also a reference book for practicing mechanical engineers. It is assumed that the reader has had courses in statics, dynamics, strength of materials, and material science. In other words, it is assumed you are the equivalent of at least a junior undergraduate in mechanical engineering.The first section of the book functions as a fast-paced review of the aforementioned prerequisites. Don’t expect elementary straight numerical problems even in the introductory section. The author gets down to business immediately with example problems that involve actual mechanical devices. The example problem solutions are excellent with separate solution sections labeled "Known","Find", "Schematic and given data", "Assumptions", "Analysis", and "Comment". Each chapter has solutions to a few of the many exercises. Of particular interest in section one is chapter 8,"Fatigue", and chapter 9, "Surface Damage". Chapter 8 is important because it contains a simplified, condensed, and introductory version of fatigue design and fatigue crack growth, and is probably going to be new material for many readers. Chapter 9 deals with the various kinds of surface deterioration in machine components. This is important because more machine parts fail because of surface damage than from actual breakage.Part two of the book is concerned with the application of the fundamentals of mechanical engineering to specific machine components. In practice, problems involving the design, analysis, or application of machine members can seldom be solved by applying the fundamentals alone. Also, there is seldom just one right answer. This second section of the book gives the engineer exposure with these types of problems.

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