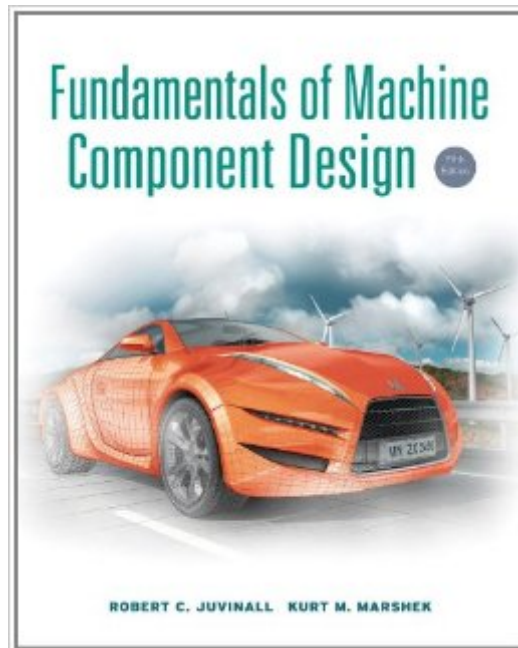


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Fundamentals Of Machine Component Design



Synopsis

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.

Book Information

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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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