

## Fundamentals Of Machine Component Design Sixth Edition Short Reviews

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#### **Fundamentals Of Machine Component Design**

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.

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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.

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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.

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