Table of contents provided by Syndetics

- I Fundamentals
- 1 Introduction
- 2 Load, Stress, and Strain
- 3 Introduction to Materials and Manufacturing
- 4 Stresses and Strains
- 5 Deformation
- 6 Failure Prediction for Static Loading
- 7 Failure Prediction for Cyclic and Impact Loading
- 8 Lubrication, Friction, and Wear
- II Machine Elements
- 9 Columns
- 10 Stresses and Deformation in Cylinders
- 11 Shafting and Associated Parts
- 12 Hydrodynamic and Hydrostatic Bearings
- 13 Rolling-Element Bearings
- 14 General Gear Theory: Spur Gears
- 15 Helical, Bevel, and Worm Gears
- 16 Fasteners and Power Screws
- 17 Springs
- 18 Brakes and Clutches
- 19 Flexible Machine Elements
- 20 Elements of Microelectromechanical Systems (MEMS)
- Appendix A Material Properties
- Appendix B Stress-Strain Relationships
- Appendix C Stress Intensity Factors for Some Common Crack Geometries