The book covers fundamental concepts, description, terminology, force analysis and methods of analysis and design of various machine elements like Curved Beams, Springs, Spur, Helical, Bevel and Worm Gears, Clutches, Brakes, Belts, Ropes, Chains, Ball Bearings and Journal Bearings. The emphasis in treating the machine elements is on the methods and procedures that give the student enough competence in applying these methods and procedures to mechanical components in general. This book offers the students to learn to use the best available design knowledge together with empirical information, logical judgment, and often a degree of ingenuity in mechanical engineering design.

Salient Features

- Compatible with the Machine Design Data Books (of same publisher and other famous books)
- Step by step procedure for design of machine elements
- Large and variety of problems solved
- Thought provoking exercise problems
- The example design problems and solution techniques are spelled out in detail
- Thorough and in depth treatment of design of the requisite machine elements
- Balance between analysis and design
- Emphasis on the materials, properties and analysis of the machine elements
- Selection of Material and factor of safety are given for each machine element
- All the illustrations are done with the help of suitable diagrams
- As per Indian Standards

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About the Author

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