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Elements of Mechanical Engineering introduces the fundamentals of mechanical engineering to the first year students of all engineering branches. It is designed to cover the syllabus of elements of Mechanical Engineering prescribed by VTU. It covers the topics in Thermal Engineering, Manufacturing Engineering Automation and Material Science. Spread in nine chapters the book deals with: Sources of energy, fuels and combustion Steam properties and boiler for steam generation Principles of operation of prime-mover Construction and operation of machine tools Automation and its applications to robotic & NC machines Properties of materials used in engineering Fabrication processes like welding, soldering and brazing Application of the principles thermodynamics to refrigeration and air conditioning Simple line diagrams help to visualize the operations of machines. Solved examples are included to enhance understanding of the fundamentals. Contents: 1. Energy Resources 2. Steam Formation and Steam Boilers 3. Turbines 4. Internal Combustion Engines 5. Machine Tools 6. Automation and Applications 7. Engineering Materials 8. Metal Fabrication 9. Refrigeration and Conditioning Audience: B.E. & B.Tech. Students