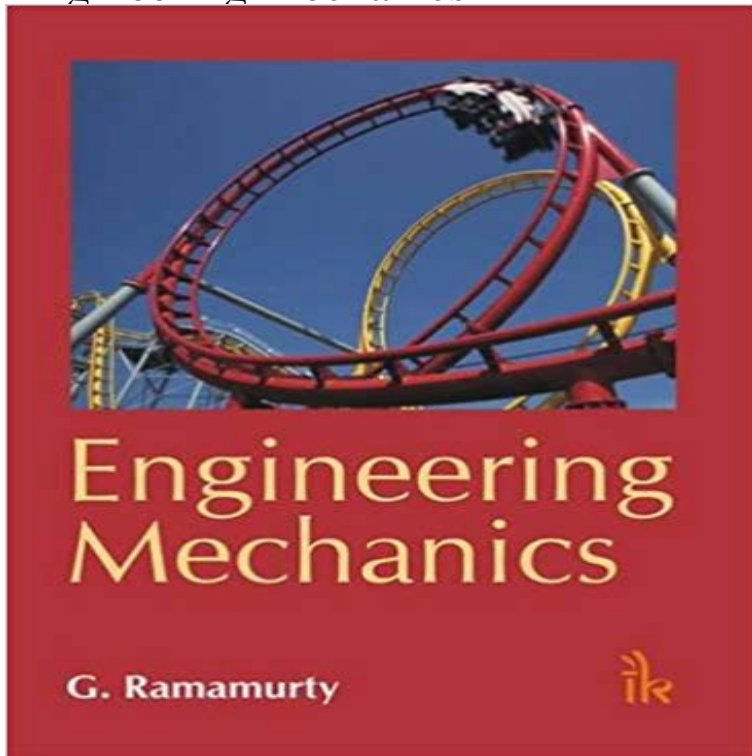


Engineering Mechanics



This textbook is intended to focus on basic concepts of Engineering Mechanics for providing the fundamental knowledge required for understanding advanced subjects based on mechanics. Salient Features: Importance of free-body diagrams for the analysis of problems has been explained. Three important methods for dynamic problems i) Newtons second law of motion ii) Work-Energy method and iii) Impulse-Momentum method. More than 150 sample problems with solutions have been provided for explaining the applications of important principles. Fundamentals of mechanical vibrations have been explained with free-body diagrams. Multiple choice questions have been included. Contents: 1. Basic Concepts 2. Force Systems and Resultants 3. Equilibrium 4. Analysis of Trusses and Frames 5. Friction 6. Virtual Work 7. Centroids and Centres of Mass 8. Moments of Inertia 9. Kinematics of Particles 10. Kinetics of Particles 11. Kinematics of rigid bodies 12. Kinetics of rigid bodies 13. Work-Energy method 14. Impulse and Momentum 15. Mechanical Vibrations References Appendix-A: Moments of Inertia. Index

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