Mechanical Experiments and Workshop Practice



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I.K. International Publishing House Pvt. Ltd, 2009. Softcover. Book Condition: New. 18 x 24 cm. The book is meant for first year BE/B.Tech. students and addresses the course curriculum in Mechanical Experiments and Workshop Practice. The book explains theory and methodology of performing experiments about: ? Mechanics ? Strength of Materials ? Materials Science The book also includes: ? IC Engines ? Steam Engines ? Boilers ? Steam Turbines ? Water Turbines and Pumps Manufacturing processes and workshop experiments are included in workshop practice which cover: ? Machining ? Welding ? Metal forming ? Casting ? Carpentry and Plumbing Key Features: ? It provides a large number of diagrams for easy understanding of tools and equipment. ? A large number of viva and objective type questions are also given. The concepts and principles of working of various common mechanical machinery such as bi-cycle, motorcycle, lift, escalator, hovercraft, aircraft, helicopter, jet engine and rocket have been explained. Similarly the constructional details and principles of working of commonly used household appliances such as desert cooler, air conditioner, refrigerator, washing machine, ceiling fan, tubelight and iron box have been included. Contents: 1. Tensile Test 2. Compression Test 3. Bending Strength Test 4. Ultimate Shear Strength 5. Brinell Hardness Test 6. Rockwell Hardness Test 7. Impact Test 8. Belt and Pulley Experiment 9. Determination of Moment of Inertia of Flywheel 10. Experiment on Trusses 11. Inclined Plane 12. Fatigue Testing 13. Torsion of Rod 14. Deflection of Beam 15. Worm and Worm Wheel for Load Lifting 16. Screw Jack 17. Verification of the Law of Triangle of Forces 18. Verification of the Law of Parallelogram of Forces 19. Spring Testing 20. Creep Test 21. Column Buckling Test 22. Gear Train 23. Four-Bar Chain 24. Single Slider Crank Chain 25. Four-Stroke IC Engine 26. Two-Stroke...

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