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this laboratory manual is composed of three parts part one provides information regarding the course requirements recording the experimental data and reporting the results part two includes the laboratory experiments and problem exercises to be performed part three is an different mechanical engineering specialties materials fluids thermodynamics etc there is much in common between all laboratory and lecture courses the purpose of this booklet is to provide a reference for students that is applicable in all engineering laboratories this lab manual provides students with the theory practical applications objectives and laboratory procedure of ten experiments the manual also includes educational videos showing how student should run each experiment and a workbook for organizing data collected in the lab and preparing result tables and charts welcome to our comprehensive collection of engineering physics laboratory experiments complete with a detailed manual to guide you through each 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