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Experiments in Fluid Mechanics, (Second Edition)

By Sarbjit Singh

PHI Learning, 2012. Softcover. Book Condition: New. 2nd edition. 18 x 24 cm. This Second Edition contains 18 experiments in Fluid Mechanics, selected from the prescribed curriculum of various universities and institutes. The laboratory work in Fluid Mechanics is undertaken by the undergraduate engineering students of several branches such as civil, mechanical, production, aerospace, chemical, biotechnology, electrical (wherever prescribed), and instrumentation and control (wherever prescribed). The first part of the book allows the students to review the fundamental theory before stepping into the laboratory environment. The second part enumerates the experimental set-ups, and provides a concluding discussion of each experiment. Appendix A gives various questions based on each experiment to test the student's understanding of the learned material. Appendix B gives data on physical properties of water, air and some commonly used fluids in the laboratory, and also lists other standard data to be used in various experiments. Contents Preface PART I: THEORY OF FLUID MECHANICS Fluid Mechanics: An Introduction PART II: EXPERIMENTS Experiment 1. Flow Through a Variable Duct Area? Bernoulli's Experiment Experiment 2. Calibration of Venturimeter Experiment 3. Calibration of Orificemeter Experiment 4. Determination of Friction Factor for Pipes of Different Materials Experiment 5. Determination of Loss coefficients for...



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