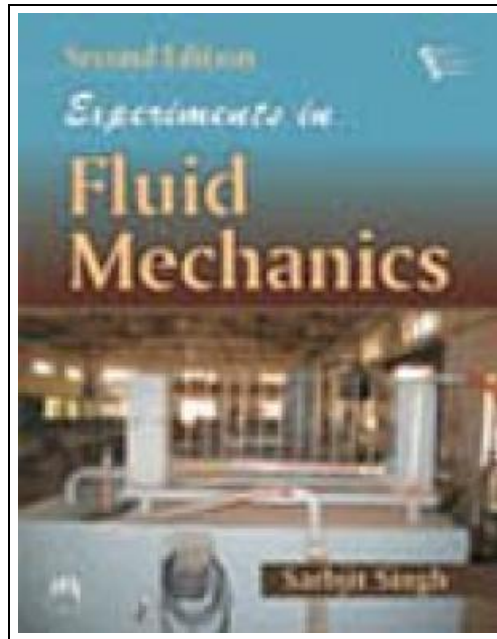


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Reviews




Good e-book and beneficial one. it absolutely was writtern quite flawlessly and beneficial. I am delighted to explain how this is basically the very best ebook i have read through within my very own daily life and may be he greatest ebook for at any time.
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EXPERIMENTS IN FLUID MECHANICS, (SECOND EDITION)



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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 Pipe Fittings Experiment 6. Verification of Momentum Equation Experiment 7. Calibration of V-notch Experiment 8. Determination of Hydrostatic Force on a Vertically Submerged Surface Experiment 9. Determination of Hydraulic Coefficients of Orifice Experiment 10. Determination of Coefficient of Discharge of Circular Orifice Using Variable Head Method Experiment 11. Determination of Metacentric Height Experiment 12. Drawing of Flow Net: Hele-Shaw Method and Electrical Analogy Method Experiment 13. Calibration of Rotameter Experiment 14. Transition of Flow? Reynolds Experiment Experiment 15. Free Vortex Flow Experiment 16. Forced Vortex Flow Experiment 17. Centrifugal Pump Test Rig Experiment 18. Flow in a Pipe Bend Appendix A...

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