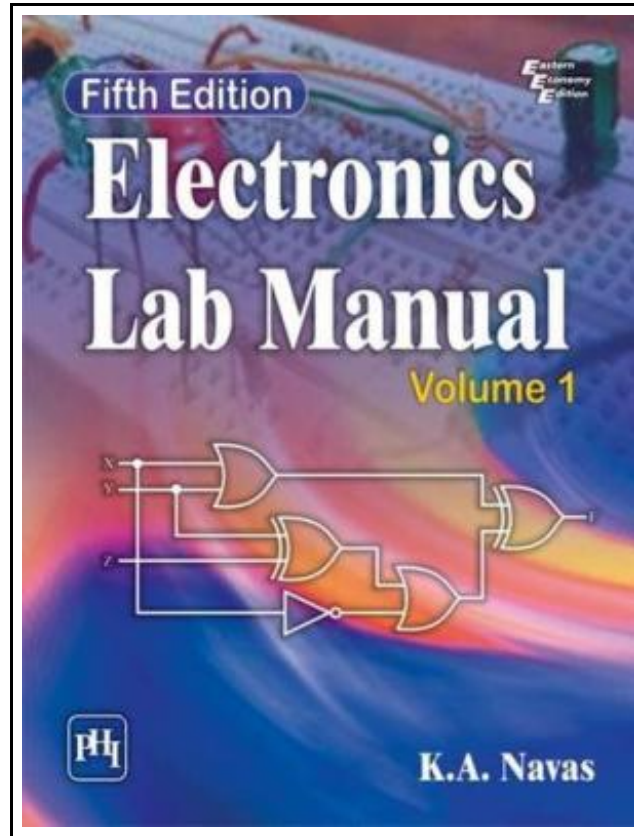


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ELECTRONICS LAB MANUAL (FIFTH EDITION) VOLUME 1



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PHI Learning, 2015. Softcover. Book Condition: New. 5th or later edition. Description: This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment, and the experiments for electronics workshop. Further, it covers experiments for basic electronics lab, electronic circuits lab and digital electronics lab. A separate chapter is devoted to the simulation of electronics experiments using PSpice. Each experiment has aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions and troubleshooting techniques. Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students. The purpose of the experiments described here is to acquaint the students with: ? Analog and digital devices ? Design of circuits ? Instruments and procedures for electronic test and measurement Contents: Preface 1. FAMILIARIZATION OF ELECTRONIC COMPONENTS AND EQUIPMENT 2. BASIC ELECTRONICS LAB (SOLID STATE DEVICES LAB) 3. ELECTRONIC CIRCUITS LAB 4. SIMULATION USING PSpice 5. DIGITAL ELECTRONICS LAB Appendices 1: Silicon Rectifier Diodes 1N4001?1N4007 2: Germanium Diode OA79 3: General Purpose Small Signal NPN Bipolar Transistor BC107 4: Silicon Power Transistor 2N3055 5: Unijunction Transistor 2N2646 6: LM124/LM224/LM324/LM2902 7: Timer 8: IC Numbers and Their Description Index Printed Pages: 560.



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