

EE 102 Elements of Electrical Engineering Lab

Objectives:

- To understand the fundamentals of Electrical Engineering
- To learn and verify different circuits, based on AC Source and DC source
- To learn and verify different Laws and Theorems of Electrical Engineering

List of Experiments

1. Verification of Kirchhoff's (Current and Voltage) Laws.
2. Verification of Superposition Theorem.
3. To verify Thevenin's Theorem.
4. Verification of Maximum Power Transfer Theorem.
5. To verify Norton's Theorem.
6. To study R-L-C series circuit & find the value of inductance & draw the Phasor Diagram.
7. To study R-L parallel circuit & find the value of inductance & draw the Phasor Diagram.
8. To obtain B-H Curve of a magnetic material.
9. Measurement of power and power factor in a single phase AC circuit Using One Wattmeter Method.
10. To find out turns ratio and flux density of a Single Phase Transformer.
11. To Perform OC and SC test on a Single Phase Transformer.
12. Power measurement in three phase star (λ) connected circuit with Balanced and unbalanced loads using Two Wattmeter Method.
13. Measurement of energy by a Single Phase Energy Meter.
14. Study of Star Delta starter for Induction Motor.

Wbut Second Semester Electrical Lab Manual

M. Riaz



Wbut Second Semester Electrical Lab Manual:

Elements of Electrical Engineering George Defrees Shepardson,1922 **Lab Manual for Lobsiger's Electrical Control for Machines** Diane Lobsiger,2014-09-12 The Laboratory Manual is a valuable tool designed to enhance your lab experience Lab activities objectives materials lists step by step procedures illustrations and review questions are commonly found in a Lab Manual The Complete Lab Manual for Electricity Stephen L. Herman,2008-02-25 The Complete Laboratory Manual for Electricity 3rd Edition is a valuable tool designed to fit into any basic electrical program that incorporates lab experience This updated edition will enhance your lab practices and the understanding of electrical concepts From basic electricity through AC theory transformers and motor controls all aspects of a typical electrical curriculum are explored in a single volume Each lab features an explanation of the circuit to be connected with examples of the calculations necessary to complete the exercise and step by step procedures for conducting the experiment Hands on experiments that acquaint readers with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series parallel combination RL series and parallel RC series and parallel and RLC series and parallel circuits Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **A Laboratory Manual for Students of Electrical Engineering** George Forster,California Institute of Technology. Division of Engineering and Applied Science,1926 The Complete Laboratory Manual for Electricity Stephen L. Herman,2004-12 The Complete Laboratory Manual for Electricity 2E is the ultimate preparation resource for any curriculum dedicated to training electricians From basic electricity through AC theory transformers and motor controls all aspects of a typical electrical curriculum are explored in a single volume Hands on experiments that acquaint students with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series parallel combination RL series and parallel RC series and parallel and RLC series and parallel circuits Each lab features an explanation of the circuit to be connected with examples of the calculations necessary to complete the exercise and step by step procedures for conducting the experiment Labs use generic equipment and devices commonly found in most hardware stores and electrical supply houses and a materials list details the components necessary to perform all of the exercises *Electrical Engineering Technology Laboratory Manual* John Kaczorowski,1983 **First Designs in Electrical Engineering** , Laboratory Manual in Electrical Engineering Walter S. Ford,1935 *Basic Electrical Engineering* Joseph A. Keleman,Western Michigan University,1967 **Electrical Engineering Lab** M. Riaz,1966

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