

Exp - 1

1. THEVENIN'S AND NORTON'S THEOREMS**1(a). VERIFICATION OF THEVENIN'S THEOREM**

1.1. OBJECTIVE: To verify Thevenin's & Norton's theorems for the given circuit. 15v

1.2. RESOURCES:

S. No	Name of the apparatus	Range	Type	Quantity
1	Regulated power supply	(0 – 30)V/2A	Digital	01
2	Voltmeter	(0-30)V	MC	01
3	Ammeter	(0-200m)A	MC	01
4	Resistors	100 Ω	Carbon Composition	02
		150 Ω		01
		200 Ω		01
5	D.R.B	0-10k Ω	—	01
6	Connecting wires	—	—	Required number

1.3. PRECAUTIONS:

1. Initially keep the RPS output voltage knob in zero volt position.
2. Set the ammeter pointer at zero position.
3. Take the readings without parallax error.
4. Avoid loose connections.
5. Avoid short circuit of RPS output terminals.

Electrical Circuits And Simulation Lab Manual Jntu

Wayne M. Hope



Electrical Circuits And Simulation Lab Manual Jntu:

Introduction to Electrical Circuits Student Lab Manual Brian Kelly, Herbert Jackson, 2007-11-12 This manual contains a collection of experiments to accompany the text *Introduction to Electric Circuits Eighth Edition* The experiments in this manual have been chosen to cover the main topics taught in foundation level courses in electrical theory and can be done with inexpensive test equipment and circuit components These experiments have been developed and refined over many years and are written in an easy to follow step by step manner There is a brief discussion at the beginning of each lab covering the theory behind the experiments to be carried out Questions are also included to test the students comprehension of the theoretical concepts verified by the experimental results and the manual is formatted to allow for the questions to be answered on the lab sheet itself if a formal report is not required Laboratory Manual for Microelectronic Circuits

Kenneth C. Smith, Adel S. Sedra, 1991 This manual contains approximately 35 experiments It follows the organization of the text and includes experiments for all major topics To help instructors choose and prepare for the experiments this manual identifies the core experiments all students should perform and includes manufacturers data sheets for the most common components **Lab Manual Introduction to Electric Circuits** Robert T. Paynter, William Muckler, Maria Nicolai

Paynter, 1998-11-01 **Lab Manual for Principles of Electric Circuits** David Buchla, 2009-04-21 *An Introduction to Electrical Circuits and Electronic Devices* Jerrold H. Krenz, 1987-01-01 A text lab manual for majors Spiral bound

Laboratory Manual for Electronic Devices and Circuits David A. Bell, 2001 This lab manual accompanies *Electronic Devices and Circuits 4 e* **Simulation Lab Manual for Use with Electricity for the Trades** Frank D. Petruzella, 2012

Electric Circuits Laboratory Manual Farzin Asadi, 2024-03-29 This book provides insights into practical aspects of electric circuits The author provides real world examples throughout this book The devices chosen for this book can be found in nearly all laboratories No expensive measurement devices are used throughout the book Someone who reads this book has a better understanding of practical aspects of electric circuits Chapter 1 introduces tools that will be used in the next chapters Chapter 2 studies the resistors and contains 9 experiments Chapter 3 studies the digital multimeters and contains 7 experiments Chapter 4 studies Kirchhoff's voltage current law nodal mesh analysis and Thevenin equivalent circuits This chapter contains 5 experiments Chapter 5 studies the first and second order circuits RC RL and RLC and contains 4 experiments Chapter 6 studies the DC and AC steady state behavior of electric circuits and frequency response of filters and has 5 experiments Chapter 7 studies magnetic coupling and transformers and contains 3 experiments Appendix A shows how different types of graphs can be drawn with MATLAB Appendix B reviews the concept of root mean square Fundamentals of Electronic Devices and Circuits Lab Manual David Bell, 2009-11-22 The laboratory investigations in this manual are designed to demonstrate the theoretical principles set out in the book *Fundamentals of Electronic Devices and Circuits 5 e* A total of 43 laboratory investigations are offered involving the construction and testing of the circuits discussed in the

textbook Each investigation can normally be completed within a two hour period The procedures contain some references to the textbook however all necessary circuit and connection diagrams are provided in the manual so that investigations can also be preformed without the textbook

Lab Manual for Electric Circuits Timothy J. Maloney,1984 **Introduction to Electric Circuits** Brian Kelly,2014 A Lab Manual for Electric Circuits Chester Comstock,1985-01-01 **Electrical Circuit Analysis Lab** Mr. Rohit Manglik,2024-07-28 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Electronic Experiences in a Virtual Lab Roberto Gastaldi,Giovanni Campardo,2020-05-11 This book presents a collection of lessons on various topics commonly encountered in electronic circuit design including some basic circuits and some complex electronic circuits which it uses as vehicles to explain the basic circuits they are composed of The circuits considered include a linear amplifier oscillators counters a digital clock power supplies a heartbeat detector a sound equalizer an audio power amplifier and a radio The theoretical analysis has been deliberately kept to a minimum in order to dedicate more time to a learning by doing approach which after a brief review of the theory readers are encouraged to use directly with a simulator tool to examine the operation of circuits in a virtual laboratory Though the book is not a theory textbook readers should be familiar with the basic principles of electronic design and with spice like simulation tools To help with the latter aspect one chapter is dedicated to the basic functions and commands of the OrCad P spice simulator used for the experiments described in the book Electronic Circuits I and II Lab Manual Wayne M. Hope,2004 Laboratory Manual (MultiSIM Emphasis) to Accompany Electronic Devices and Circuit Theory Robert L. Boylestad,Louis Nashelsky,2005-04 Simulation-based Labs for Circuit Analysis Massimo Mitolo,2024-08-16 Simulation based Labs for Circuit Analysis brings you an unparalleled learning experience integrating cutting edge simulation tools Multisim Live and Tinkercad to explore the realm of circuits Circuit analysis is the cornerstone of electrical and electronic engineering and with the advent of advanced simulation software learning has taken a transformative turn Delve into a virtual laboratory environment that replicates real world circuit experiments with precision and flexibility allowing you to grasp complex concepts effortlessly Recreate experiments multiple times gaining deeper insights into circuit characteristics and behavior across various scenarios Aspiring engineers and technicians circuit enthusiasts and educators will find Simulation based Labs for Circuit Analysis an indispensable resource for unlocking the boundless possibilities of circuit analysis in the digital age Whether you are a student seeking to excel in your studies or a professional looking to refine your engineering skills this book will empower you to innovate explore and experiment without limits

Laboratory Manual for Electronics via Waveform Analysis Edwin C. Craig,2012-12-06 To the Instructor The purpose of this laboratory manual is not just to help students to set up electronic circuits that function as they should The

important thing is the electronic concepts that the student learns in the process of setting up and studying these circuits. Quite often a student learns more electronics when he has to trouble shoot a circuit than when the circuit performs as it should when first built. It is unlikely that any students would be able to complete all of these experiments in one semester. The author believes that all students should have laboratory experiences with power supplies, amplifiers, oscillators, and integrated circuits. Additionally, laboratory experiments should be determined by the instructor. Therefore you can choose those that you want done. Some students are more efficient in the laboratory than others. Therefore some would be able to complete more experiments in a semester than others. Also many of these experiments cannot be completed in one two hour laboratory period. If space is available the circuits could be left intact from one period to the next. Or you might want to select steps in an experiment that you want to delete. Neither the values of the components or the magnitudes of the power supplies as given in the instructions are critical. Therefore you could in most cases change them if the ones recommended are not available.

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. Laboratory Manual to Accompany Electric Circuits for Technologists Jack L. Waintraub, 1990.

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