EXPERIMENT 3:
Thevenin's Theorem

INTRODUCTORY INFORMATION:

Thevenin's Theorem states that any two-terminal active network may be replaced by a simple equivalent circuit consisting of a constant voltage source V_{TH} in series with resistance R_{TH} seen between these terminals.
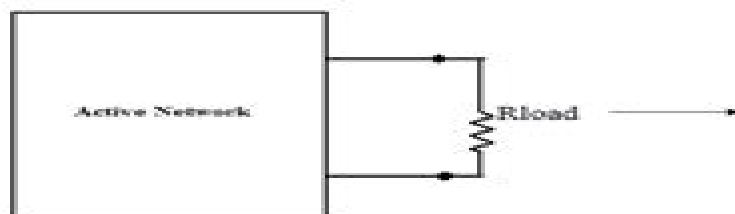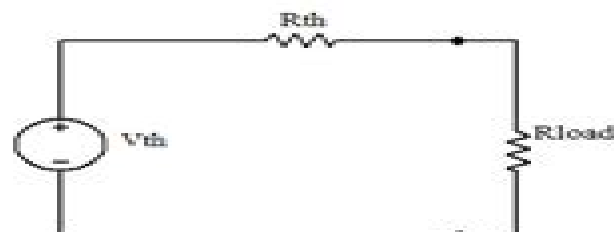

Figure 17: Original Network

Figure 18: Thevenin's Equivalent

Figure 17 shows an active network driving a load resistor R_L. This active network can be replaced by an equivalent circuit shown in Figure 18. The voltage V_{TH} is the voltage seen across the load terminals in the original network, with the load resistance R_L removed (open circuit voltage). The resistance R_{TH} is the resistance seen from the terminals of the open load when the voltage sources in the circuit are replaced by their internal resistances.

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   Computer Simulation Lab Manual with MultiSIM CD to Accompany Electricity for the Trades Frank D. Petruzella,2005-07-15 Petruzella s Computer Simulation Lab Manual with MultiSim CD can be used in conjunction with the author s Electricity for the Trades text or as a stand alone item The Lab Manual contains simulation activities for all major topics in DC and AC electricity and the experiments can easily be modified to use as physical labs with actual hardware Students simply open the files on the accompanying CD perform the lab as outlined in the manual and record their answers in the space provided Nothing could be easier for the instructor and student All labs have been field tested Sure to maximize the use of the many MultiSIM installations out there   **Laboratory Manual (MultiSIM Emphasis) to Accompany Electronic Devices and Circuit Theory** Robert L. Boylestad,Louis Nashelsky,2005-04   **Lab Manual Digital & Ewb Multisim 7 Lite Pkg** ANONIMO,2004-11-01   **Analog Electronic Circuits Laboratory Manual** Farzin Asadi,2023-04-06 This is a book for a lab course meant to accompany or follow any standard course in electronic circuit analysis It has been written for sophomore or junior electrical and computer engineering students either concurrently with their electronic circuit analysis class or following that class This book is appropriate for non majors such as students in other branches of engineering and in physics for which electronic circuits is a required course or elective and for whom a working knowledge of electronic circuits is desirable This book has the following objectives 1 To support verify and supplement the theory to show the relations and differences between theory and practice 2 To teach measurement techniques 3 To convince students that what they are taught in their lecture classes is real and useful 4 To help make students tinkerers and make them used to asking what if questions   **Computer Simulated Experiments for Electric Circuits Using Electronics Workbench Multisim** Richard Henry Berube,2004 For courses in Electric Circuits This unique and innovative laboratory manual helps students learn and understand circuit analysis concepts by using Electronic Workbench software to simulate actual laboratory experiments on a computer Students work with circuits drawn on the computer screen and with simulated instruments that act like actual laboratory instruments Circuits can be modified easily with on screen editing and analysis results provide fast accurate feedback Hands on in approach throughout in both interactive experiments and a series of questions about the results of each experiment it is more cost effective safer and more thorough and efficient than using hardwired experiments This lab manual can be sold for use with any DC AC text Note This book no longer comes with a CD Any reference to a CD within the book is out of date and will be updated on our next printing The information from the CD is available online http media pearsoncmg com ph chet chet_electronics_student_1 Click on Older Titles   **Principles of Electric Circuits** Thomas L. Floyd,2010 For DC AC Circuits courses requiring a comprehensive classroom tested text with an emphasis on troubleshooting and the practical application of DC AC principles and concepts This text provides an exceptionally clear introduction to DC AC circuits supported by superior exercises examples and illustrations and an

emphasis on troubleshooting and applications Throughout the text s coverage the use of mathematics is limited to only those concepts that are needed for understanding Floyd s acclaimed troubleshooting emphasis provides students with the problem solving experience they need to step out of the classroom and into a job **Essentials of Advanced Circuit Analysis** Djafar K. Mynbaev,2024-02-27 ESSENTIALS OF ADVANCED CIRCUIT ANALYSIS Comprehensive textbook answering questions regarding the Advanced Circuit Analysis subject including its theory experiment and role in modern and future technology Essentials of Advanced Circuit Analysis focuses on fundamentals with the balance of a systems theoretical approach and current technological issues The book aims to achieve harmony between simplicity engineering practicality and perceptivity in the material presentation Each chapter presents its material on various levels of technological and mathematical difficulty broadening the potential readership and making the book suitable for both engineering and engineering technology curricula Essentials of Advanced Circuit Analysis is an instrument that will introduce our readers to real life engineering problems why they crop up and how they are solved The text explains the need for a specific task shows the possible approaches to meeting the challenge discusses the proper method to pursue finds the solution to the problem and reviews the solution s correctness the options of its obtaining and the limitations of the methods and the results Essentials of Advanced Circuit Analysis covers sample topics such as Traditional circuit analysis s methods and techniques concentrating on the advanced circuit analysis in the time domain and frequency domain Application of differential equations for finding circuits transient responses in the time domain and classical solution integration of circuit s differential equation including the use of the convolution integral Laplace and Fourier transforms as the main modern methods of advanced circuit analysis in the frequency domain Essentials of Advanced Circuit Analysis is an ideal textbook and can be assigned for electronics signals and systems control theory and spectral analysis courses It s also valuable to industrial engineers who want to brush up on a specific advanced circuit analysis topic Introductory DC/AC Circuits Nigel P. Cook,2005 B This time honored book now in its sixth edition improves on its charter to offer comprehensive and current coverage of DC AC electronics and Semiconductor Devices and Circuits along with all prerequisite mathematics in a learner friendly easily accessible format The presentation includes many chapter opening and margin timelines component type tables circuit analysis tables protoboard pictorials extensive testing and troubleshooting and much more For electrical engineers and computer technicians **Instructors Resource Manual with Lab and Text Solutions** Thomas Floyd,2002-06 **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

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