Series-Parallel Combination Circuits

Name
Date
Class

READING

Text, Sections 6-1 through 6-4

OBJECTIVES

After performing this experiment, you will be able to:

- Use the concept of equivalent circuits to simplify series-parallel circuit analysis.
- Compute the currents and voltages in a series-parallel combination circuit analysis.
 computation with circuit measurements.

MATERIALS NEEDED

Resistors:

One 2.2 k Ω , one 4.7 k Ω , one 5.6 k Ω , one 10 k Ω

SUMMARY OF THEORY

Most electronic circuits are not just series or just parallel circuits. Instead they may contain combinations of components. Many circuits can be analyzed by applying the ideas developed for series and parallel circuits to them. Remember that in a series circuit the same current is through all components, and that the total resistance of series resistors is the sum of the individual resistors. By contrast, in parallel circuits, the applied voltage is the same across all branches and the total resistance is given by the reciprocals formula.

In this experiment, the circuit elements are connected in composite circuits containing both series and parallel combinations. The key to solving these circuits is to form equivalent circuits from the series or parallel elements. You need to recognize when circuit elements are connected in series or parallel in order to form the equivalent circuit. For example, in Figure 10-1(a) we see that the identical current must be through both R_2 and R_3 . We conclude that these resistors are in series and could be replaced by an uivalent resistor equal to their sum. Figure 10-1(b) illustrates this idea. The circuit has been simplified an equivalent parallel circuit. After finding the currents in the equivalent circuit, the results can be belied to the original circuit to complete the solution.

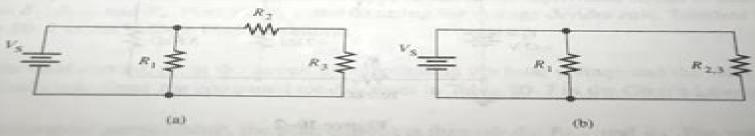


Figure 10-1

Electric Circuit Fundamentals Lab Experiments

Irving L. Kosow

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Electric Circuit Fundamentals David Buchla, 1990-01-01 **Experiments in Electronics Fundamentals and Electric Circuits Fundamentals** David Buchla, 2009 This laboratory manual is designed to accompany Electronic Fundamentals Circuits Devices and Applications Eighth Edition And Electric Circuits Fundamentals Eight Edition both by Thomas L Floyd **Catalogue** United States Military Academy, 1961 and David M Buchla **Essentials of Nonlinear Circuit Dynamics** with MATLAB® and Laboratory Experiments Arturo Buscarino, Luigi Fortuna, Mattia Frasca, 2017-04-07 This book deals with nonlinear dynamics of electronic circuits which could be used in robot control secure communications sensors and synchronized networks The genesis of the content is related to a course on complex adaptive systems that has been held at the University of Catania since 2005 The efforts are devoted in order to emulate with nonlinear electronic circuits nonlinear dynamics Step by step methods show the essential concepts of complex systems by using the Varela diagrams and accompanying MATLAB exercises to reinforce new information Special attention has been devoted to chaotic systems and networks of chaotic circuits by exploring the fundamentals such as synchronization and control The aim of the book is to give to readers a comprehensive view of the main concepts of nonlinear dynamics to help them better understand complex systems and their control through the use of electronics devices Fundamentals of Electrical Power Systems Analysis Md. Abdus Salam, 2020-02-17 This book covers the topic from introductory to advanced levels for undergraduate students of Electrical Power and related fields and for professionals who need a fundamental grasp of power systems engineering The book also analyses and simulates selected power circuits using appropriate software and includes a wealth of worked out examples and practice problems to enrich readers learning experience In addition the exercise problems provided can be ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION NAVAS, K. A., 2015-09-11 This lab used in teaching courses 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 Catalog of the U.S. Military Academy Military Academy, West Point, Laboratory Experiments in General Physics Alfred Dodge Cole, Charles Sheard, 1910 **Catalog** Michigan State University, 1954 Control of Electric Machines Irving

L. Kosow, 1973 A Handbook for the Electrical Laboratory and Testing Room Sir John Ambrose Fleming, 1901 The Coast Guard Engineer's Digest ,1960 Catalog of Information United States Military Academy, 1946 Electrical Circuit Theory and Technology John Bird, 2010-08-31 A fully comprehensive text for courses in electrical principles circuit theory and electrical technology providing 800 worked examples and over 1000 further problems for students to work through at their own pace This book is ideal for students studying engineering for the first time as part of BTEC National and other pre degree vocational courses especially where progression to higher levels of study is likely as well as Higher Nationals Foundation Degrees and first year undergraduate modules Now in its third edition this best selling textbook has been updated with developments in key areas such as semiconductors transistors and fuel cells along with brand new material on ABCD parameters and Fourier's Analysis Greater emphasis is placed on real world situations in order to ensure the reader can relate the theory to actual engineering practice In addition the text has been restructured throughout so that 175 Exercises now appear at regular intervals which the student can work through to test their learning of essential concepts and check their progress Catalogue Kansas State Agricultural College, Kansas State College of Agriculture and Applied Science, Kansas State University, 1922 Electric Transients Carl Edward Magnusson, 1926 Laboratory Experiments in Practical Physics, to Accompany the Revised Edition of Black and Davis' "Practical Physics"

Newton Henry Black,1923 **Basics of Electrical Machines** Prof. D. K. Palwalia, Dr. U. K. Kalla, Dr. R. K. Kumawat,2025-01-01 **Catalog** Southwestern Indian Polytechnic Institute, **Resources in Education**,1985

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