

COMBINED SERIES-PARALLEL CIRCUIT EXAMPLE

GIVEN: Consider the circuit shown, where

$$R_1 = 20\Omega$$

$$R_2 = 20\Omega$$

$$R_3 = 5\Omega$$

$$R_4 = 10\Omega$$

$$R_5 = 15\Omega$$

$$R_6 = 25\Omega$$

$$R_7 = 100\Omega$$

$$V_{\text{batt}} = 120\text{V}$$

REQUIRED:

- The current leaving the battery.
- The power supplied by the battery.
- The voltage across R_2 .

SOLUTION:

- First, combine the three resistors that are in series.

$$R_{3+4+5} = R_3 + R_4 + R_5 = 5\Omega + 10\Omega + 15\Omega$$

$$\underline{R_{3+4+5} = 30\Omega}$$

We can now redraw the circuit as shown.

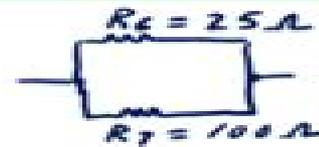


We can now combine all resistors in parallel. By inspection, we note that R_1 and R_2 are in parallel, and R_6 and R_7 are in parallel.



$$R_{1,2} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}} = \frac{1}{\frac{1}{20\Omega} + \frac{1}{20\Omega}} = \frac{1}{\frac{2}{20\Omega}}$$

$$\underline{R_{1,2} = 10\Omega}$$



$$R_{6,7} = \frac{1}{\frac{1}{R_6} + \frac{1}{R_7}} = \frac{1}{\frac{1}{25\Omega} + \frac{1}{100\Omega}} = \frac{1}{\frac{5}{100\Omega}}$$

$$\underline{R_{6,7} = 20\Omega}$$

Circuit Problems And Solutions

James A. Svoboda



Circuit Problems And Solutions:

Electric Circuit Problems with Solutions F. A. Benson, 2012-12-06 Electrical engineering and electronic engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential The author is very much in favour of tutorials and the solving of problems as a method of education Experience shows that many engineering students encounter difficulties when they first apply their theoretical knowledge to practical problems Over a period of about twenty years the author has collected a large number of problems on electric circuits while giving lectures to students attending the first two post intermediate years of University engineering courses The purpose of this book is to present these problems a total of 365 together with many solutions some problems with answers given at the end of each Chapter are left as student exercises in the hope that they will prove of value to other teachers and students Solutions are separated from the problems so that they will not be seen by accident The answer is given at the end of each problem however for convenience Parts of the book are based on the author's previous work Electrical Engineering Problems with Solutions which was published in 1954

Electric Circuit Problems with Solutions Benson, 1973-01-01 Electromagnetic Theory; Problems and Solutions Keith Foster, R. Anderson, 1970 **Physics—Problems, Solutions, and Computer Calculations** Wan Muhamad Saridan Wan Hassan, Abd Rahman Tamuri, Muhammad Zaki Yaacob, Roslinda Zainal, 2023-12-05 Knowledge of and skill in physics are essential foundations for studies in science and engineering This book offers students an introduction to the basic concepts and principles of physics It covers various topics specifically related to waves sound electricity magnetism and optics Each chapter begins with a summary of concepts principles definitions and formulae to be discussed as well as ending with problems and solutions that illustrate the specific topic Steps are detailed to help build reasoning and understanding There are 250 worked problems and 100 exercises in the book as well as 280 figures to help the reader visualize the processes being addressed Computer calculations and solutions are carried out using wxMaxima to give insight and help build computational skills The book is aimed at first year undergraduate students studying introductory physics and would also be useful for physics teachers in their instruction particularly the exercises at the end of each chapter **Inverse Problems in Electric Circuits and Electromagnetics** N.V. Korovkin, V.L. Chechurin, M. Hayakawa, 2007-04-14 The design and development of electrical devices involves choosing from many possible variants that which is the best or optimum according to one or several criteria These optimization criteria are usually already clear to the designer at the statement of the design problem The methods of optimization considered in this book allow us to sort out variants of the realization of a design on the basis of these criteria and to create the best device in the sense of the set criteria Optimization of devices is one of the major problems in electrical engineering that is related to an extensive class of inverse problems including synthesis diagnostics fault detection identification and some others with common mathematical properties When designing a device the engineer

actually solves inverse problems by defining the device structure and its parameters and then proceeds to deal with the technical specifications followed by the incorporation of his own notions of the best device. Frequently the solutions obtained are based on intuition and previous experience. New methods and approaches discussed in this book will add mathematical rigor to these intuitive notions. By virtue of their urgency, inverse problems have been investigated for more than a century. However, general methods for their solution have been developed only recently. An analysis of the scientific literature indicates a steadily growing interest among scientists and engineers in these problems.

Electric Circuit Problems
Frank Atkinson Benson, 1967 Electric Circuits Nikolaos Papamarkos, 2015-11-02
The theory of electric circuit analysis includes a great number of cases that are usually difficult for a student to understand them easily. However, in order to fully understand the operation of electric circuits, the students should fully understand the concepts, laws, mathematical relationships, and methods of circuit analysis. Although a circuit theory book usually contains a number of solved examples, these do not cover sufficiently the theory and the techniques used in the analysis of electrical circuits. It is required by the students to train themselves by solving a significant number of additional problems, many of which must have a certain level of difficulties. This book contains a number of selected problems in electric circuits. It includes exercises involving the application of dc analysis methods, Kirchhoff's laws, mesh and nodal analysis, equivalent circuits, finding response first and second order circuits, convolution state equation, and general methods of network analysis. Emphasis has been given on understanding not only the theorems but also the basic techniques applied in the analysis of electric circuits. Thus, each problem is analytically solved by choosing the most appropriate technique. When students successfully complete the study of this book, they will have a good working knowledge of basic circuit principles and a demonstrated ability to solve a variety of circuit-related problems.

Problems and solutions in elementary electricity and magnetism, embracing the South Kensington papers for the years 1885-1894, by W. Slingo and A. Brooker. *Embracing the South Kensington papers for the years 1885-1899*. Science and art department, 1900

Circuit Problems & Solutions, V.1 Gerard Lippin, 1967

Problems & Solutions in Electric Circuit Analysis S. N. Sivanandam, Ph.D., S. N. Deepa, 2007
Problems and Solutions in Electric Circuit Analysis provides an extensive approach to problem solving in the basic principles of circuit analysis. It is a knowledge-based book that will help the reader to pursue further study in this discipline. The solutions to the problems are well balanced for polytechnic colleges, engineering colleges, and university level studies. There are seventeen chapters in the book. The topics included can be covered in two academic semesters. The main objective of the book is to enable the students to clearly understand the method of solving electric circuit problems.

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