

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.

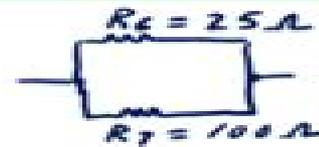


We can now combine all resistors in parallel. By inspection, we note that R_1 and R_2 are in parallel, and R_6 and R_7 are in parallel.



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

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



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

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

Series And Parallel Circuits Problems Answers

Robert T. Paynter, B. J. Toby Boydell



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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

DC/AC Electrical Fundamentals Dale R. Patrick, Stephen W. Fardo, Ray Richardson, Vigyan (Vigs) Chandra, 2024-02-09 This book explores many essential topics in a basic and easy to understand manner This book and the accompanying *Electronic Devices and Circuit Fundamentals* have been modified with significant updates in content The books are developed using a classic textbook *Electricity and Electronics A Survey* 5th Edition as a framework Both new books have been structured using a similar sequence and organization as previous editions The previous edition of *Electricity and Electronics A Survey* contained 18 chapters 8 in the Electricity section and 10 in the Electronics section This book has been expanded to include 19 chapters further simplifying content and providing a more comprehensive coverage of the content The content has been continually updated and revised through new editions and by reviewers over the years Additional quality checks to ensure technical accuracy clarity and coverage of content have always been an area of focus Each edition of the text has been improved through the following features Improved and updated text content Improved usage of illustrations and photos Use of color to add emphasis and clarify content

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the reader to component testing and fault symptoms Many newer components and component packages appearing throughout New margin notes introducing applications of principles and circuits New margin notes demonstrating calculator key sequences for many of the problem solving examples

Engineering Science William Bolton, 2016-01-29 Engineering Science Second Edition provides a comprehensive discussion of the fundamental concepts in engineering The book is comprised of 16 chapters that provide the theories and applications of different engineering concepts The coverage of the text includes statics equilibrium and structures dynamics motions and vibrations and energy and thermal systems The book also discusses electrical circuits including direct and alternating current circuits and electric and magnetic fields including electromagnetism The text will be useful to students of the various branches of engineering such as mechanical electrical and civil

700 Answers to Power Problems Pak Organization of Workers in Educational Research, 1929 Circuit Problems and Solutions Gerard Lippin, 1967 Introductory Electric Circuits Robert T. Paynter, 1999 Provides in depth coverage of the fundamentals of electronic technology and hones in on core choice topics to ensure a solid foundation for growth Promoting understanding at all times it features a functional four color design and comes with a well designed Electronic Workbench Application Problems disk for additional practice Provides a more streamlined but more substantial introduction to electric circuits

Electric Circuit Analysis Michel George Malti, 1930 **Circuit Analysis** Irving L. Kosow, 1988 Engineering educators generally agree that the important insights into theoretical material are gained through the solution of problems the qualitative portions of the subject are easier understood once the quantitative aspects are mastered This text adopts this approach by encouraging students to develop problem solving skills while breaking the formula habit wherein students merely solve problems by plugging in numbers Instead worked examples and problems have been selected to develop insight and confidence Text examples and problems are often recycled providing alternative solution methods to reinforce comprehension of circuit analysis concepts In addition as new examples are presented and solved the underlying concepts are summarized to ensure and enhance student understanding

Electric Circuits David A. Bell, 1994 The Science of Renewable Energy Frank R. Spellman, 2016-07-06 Latest Edition Explores Fresh New Alternatives to Fossil Fuels The Science of Renewable Energy Second Edition takes a look at ways to produce sustainable and reliable energy sources and presents practical examples along with scientific methods models observations and tools Developed by esteemed author Frank R Spellman this book includes inpu

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The Electrical Engineer, 1911 Elements of Alternating Currents and Alternating Current Apparatus Jacob Lynford Beaver, 1926 *Course for Electrical Metermen* National Electric Light Association. Engineering National Section. Meter Committee, 1928 **Alternating Currents** Frederick Bedell, Albert Cushing Crehore, 1893 **Alternating currents, by F. Bedell and A.C. Crehore** Frederick Bedell, 1893 Electricity and Magnetism for Engineers: Electrostatics and alternating

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