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Let :  $R_f$  = total resistance of the feeder conductors

$$R_f = 2 \left[ \frac{0.078 \Omega}{1000 \text{ ft}} \times 2500 \text{ ft} \right] = 0.39 \Omega$$

$$E_s = V_r + IR_f$$

$$E_s = \frac{P_r}{I} + IR_f$$

$$600 = \frac{60,000}{I} + I(0.39)$$

$$600I = 60,000 + 0.39I^2$$

$$I^2 - 1538.46 + 153846 = 0$$

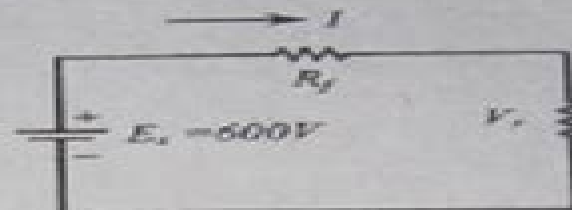
Using the quadratic formula :

$$I = \frac{1538.46 \pm \sqrt{(1538.46)^2 - 4(1)(153846)}}{2(1)} = \frac{1538.46 \pm 1323.433}{2}$$

Note: Use negative sign for minimum current

$$I = \frac{1538.46 - 1323.433}{2} = 107.513 \text{ A}$$

$$I \approx 108 \text{ A}$$



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Let :  $R$  = total resistance of the line

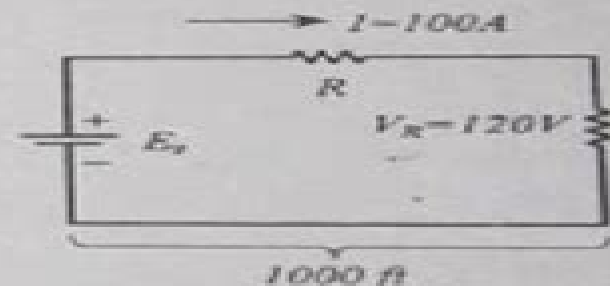
$$A = d^2 = (0.45 \times 1000)^2 = 202,500 \text{ CM}$$

$$R = \rho \frac{L}{A}$$

$$R = \frac{10.37(2000)}{202,500} = 0.1024 \Omega$$

$$E_s = V_R + IR = 120 + 100(0.1024)$$

$$E_s = 130.24 \text{ volts}$$



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Assume :  $R$  = equivalent resistance of the circuit

$$V_R = E_s - IR$$

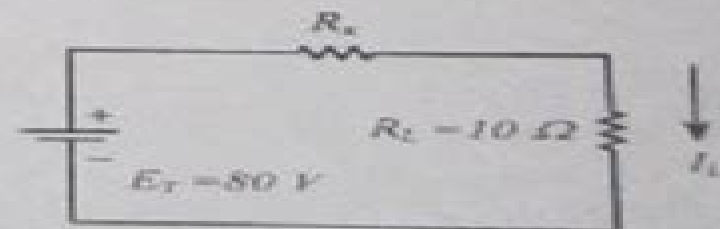
$$V_R = 750 - 100 [(0.27 + 0.06)(5)]$$

$$V_R = 585 \text{ V}$$

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$$I_L = \frac{V_L}{R_L} = \frac{50}{10} = 5 \text{ A}$$

$$R_s = \frac{E_T - V_L}{I_L} = \frac{80 - 50}{5} = 6 \Omega$$



# Solved Problems Of Electrical Circuit Analysis

**James Nilsson, Susan Riedel**



## **Solved Problems Of Electrical Circuit Analysis:**

**DC Electrical Circuit Analysis** Mehdi Rahmani-Andebili, 2020-10-09 This study guide is designed for students taking courses in electrical circuit analysis The book includes examples questions and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic understanding of the topics covered in electric circuit analysis courses

Advanced Electrical Circuit Analysis Mehdi Rahmani-Andebili, 2021-07-21 This study guide is designed for students taking advanced courses in electrical circuit analysis The book includes examples questions and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic understanding of the topics covered in electric circuit analysis courses

Electrical Circuits. Nodal and Mesh Analysis Bachiller Soler, A, Cano Gonzalez, R, González Cagigal, M, 2021-11-22 This book is focused on the systematic analysis of electric circuits using nodal and mesh equations In the first chapter a brief study is presented on the number of equations and unknowns generally involved in the resolution of an electric circuit The second chapter describes the method based on node voltage equations while the third chapter is focused on the mesh current equations Each chapter includes a section with the theoretical concepts required to successfully approach all the proposed problems which are solved in detail This work supposes an important pedagogical effort including more than 150 illustrations which facilitate the overall understanding and make the reading more entertaining **3,000 Solved Problems in**

**Electrical Circuits** Syed A. Nasar, 1988-01-22 Schaum s powerful problem solver gives you 3 000 problems in electric circuits fully solved step by step The originator of the solved problem guide and students favorite with over 30 million study guides sold Schaum s offers a diagram packed timesaver to help you master every type of problem you ll face on tests Problems cover every area of electric circuits from basic units to complex multi phase circuits two port networks and the use of Laplace transforms Go directly to the answers and diagrams you need with our detailed cross referenced index Compatible with any classroom text Schaum s 3000 Solved Problems in Electric Circuits is so complete it s the perfect tool for graduate or professional exam prep

**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

**AC Electrical Circuit Analysis** Mehdi Rahmani-Andebili, 2021-01-04 This study guide is designed for students taking courses in electrical circuit analysis The textbook includes examples questions and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student's problem solving skills and basic understanding of the topics covered in electric circuit analysis courses Exercises cover a wide selection of basic and advanced questions and problems Categorizes and orders the problems based on difficulty level hence suitable for both knowledgeable and under prepared students Provides detailed and instructor recommended solutions and methods along with clear explanations Can be used along with the core textbooks in AC circuit analysis and advanced electrical circuit analysis

*ELECTRICAL CIRCUIT ANALYSIS* MAHADEVAN, K., CHITRA, C., 2018-01-01 The book now in its Second Edition presents the concepts of electrical circuits with easy to understand approach based on classroom experience of the authors It deals with the fundamentals of electric circuits their components and the mathematical tools used to represent and analyze electrical circuits This text guides students to analyze and build simple electric circuits The presentation is very simple to facilitate self study to the students A better way to understand the various aspects of electrical circuits is to solve many problems Keeping this in mind a large number of solved and unsolved problems have been included The chapters are arranged logically in a proper sequence so that successive topics build upon earlier topics Each chapter is supported with necessary illustrations It serves as a textbook for undergraduate engineering students of multiple disciplines for a course on circuit theory or electrical circuit analysis offered by major technical universities across the country

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**NEW TO THE SECOND EDITION** Incorporates several new solved examples for better understanding of the subject Includes objective type questions with answers at the end of the chapters Provides an appendix on Laplace Transforms

**DC Electrical Circuits Analysis** Mehdi Rahmani-Andebili, 2025-10-13 This new and expanded edition is designed for students taking DC electrical circuit analysis courses It includes a range of problems and detailed solutions to enhance understanding of the subject The textbook features

partially and fully solved exercises and hints for the necessary formulas and answers This structure allows students to study the topic while walking through problem solving methods and solutions Topics covered include basic concepts and laws of electrical circuits analysis methods of electrical circuits analysis theorems of electrical circuits analysis capacitors inductors and circuit analysis under steady state conditions analysis of first order circuits and analysis of second order circuits With its thorough solutions diverse problem solving approaches and clear explanations this hands on guide aims to improve students problem solving skills and foster a strong understanding of electric circuit analysis Additionally it serves as a valuable resource for instructors in developing questions tests and quizzes *Electric Circuit Analysis* S. N. Sivanandam, 2009-11-01

This book *Electric Circuit Analysis* attempts to provide an exhaustive treatment of the basic foundations and principles of circuit analysis which should become an integral part of a student's knowledge in his pursuit of the study of further topics in electrical engineering The topics covered can be handled quite comfortably in two academic semesters Numerous solved problems are provided to illustrate the concepts In addition a large number of exercise problems have been included at the end of each chapter This revised edition covers some additional topics separately in an appendix Further some revisions and corrections have been incorporated in the text as per the suggestions given by teachers and students of electrical engineering The book draws upon three decades of teaching experience of the author in this subject Students are advised to work out the problems and enhance their learning and knowledge of the subject The book includes objective type questions to help students prepare for competitive examinations **Electric Circuit Analysis, 3e Student Problem Set and**

**Solutions** David E. Johnson, 1996-01-15 Comprehensive practice and explanations of electrical circuits *Electrical Circuit Analysis Third Edition Student Problem Set and Solutions* provides physics and engineering students with supplementary practice problems for understanding circuits Concise explanations clarify difficult concepts and applications while extensive examples and problems allow students to strengthen their understanding by applying their knowledge and critical thought Covering a broad swath of circuit problems this book includes analysis of first and second order circuits AC steady state power sinusoidal sources mutual inductance frequency response and much more **Introduction to Electrical Circuit**

**Analysis** Ozgur Ergul, 2017-05-02 A concise and original presentation of the fundamentals for new to the subject electrical engineers This book has been written for students on electrical engineering courses who don't necessarily possess prior knowledge of electrical circuits Based on the author's own teaching experience it covers the analysis of simple electrical circuits consisting of a few essential components using fundamental and well known methods and techniques Although the above content has been included in other circuit analysis books this one aims at teaching young engineers not only from electrical and electronics engineering but also from other areas such as mechanical engineering aerospace engineering mining engineering and chemical engineering with unique pedagogical features such as a puzzle like approach and negative case examples such as the unique When Things Go Wrong section at the end of each chapter Believing that the traditional

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**Understanding Circuits** Khalid Sayood,2022-06-01 This book lecture is intended for a college freshman level class in problem solving where the particular problems deal with electrical and electronic circuits It can also be used in a junior senior level class in high school to teach circuit analysis The basic problem solving paradigm used in this book is that of resolution of a problem into its component parts The reader learns how to take circuits of varying levels of complexity using this paradigm The problem solving exercises also familiarize the reader with a number of different circuit components including resistors capacitors diodes transistors and operational amplifiers and their use in practical circuits The reader should come away with both an understanding of how to approach complex problems and a feel for electrical and electronic circuits Electric Circuit

Analysis T. V. Narmadha, 2006      *Electric Circuit Analysis* S. N. Sivanandam, 2009-11-01 This book *Electric Circuit Analysis* attempts to provide an exhaustive treatment of the basic foundations and principles of circuit analysis which should become an integral part of a student's knowledge in his pursuit of the study of further topics in electrical engineering. The topics covered can be handled quite comfortably in two academic semesters. Numerous solved problems are provided to illustrate the concepts. In addition, a large number of exercise problems have been included at the end of each chapter. This revised edition covers some additional topics separately in an appendix. Further, some revisions and corrections have been incorporated in the text as per the suggestions given by teachers and students of electrical engineering. The book draws upon three decades of teaching experience of the author in this subject. Students are advised to work out the problems and enhance their learning and knowledge of the subject. The book includes objective type questions to help students prepare for competitive examinations.

Fundamentals of Modern Electric Circuit Analysis and Filter Synthesis Afshin Izadian, 2023-01-13 This textbook explains the fundamentals of electric circuits and uses the transfer function as a tool to analyze circuits, systems, and filters. The author avoids the Fourier transform since this topic is often not taught in circuits courses. General transfer functions for low pass, high pass, band pass, and band reject filters are demonstrated with first order and higher order filters explained in plain language. The author's presentation is designed to be accessible to a broad audience with the concepts of circuit analysis explained in basic language reinforced by numerous solved examples.

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