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Let : R_f = total resistance of the feeder conductors

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

$$E_s = V_r + IR_f$$

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

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

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

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

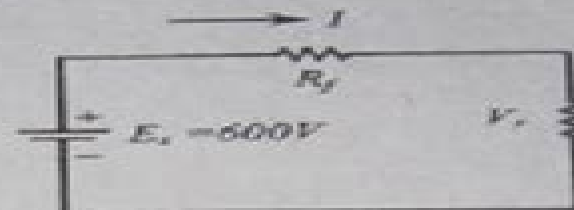
Using the quadratic formula :

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

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

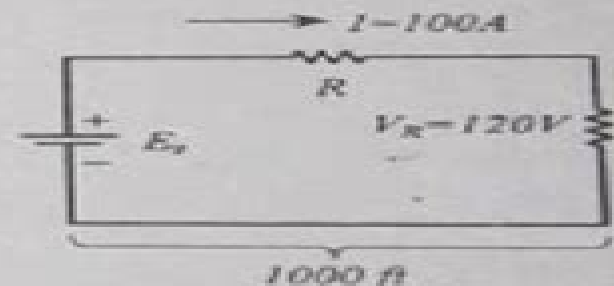
$$A = d^2 = (0.45 \times 1000)^2 = 202,500 \text{ CM}$$

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

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

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

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



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Assume : R = equivalent resistance of the circuit

$$V_R = E_s - IR$$

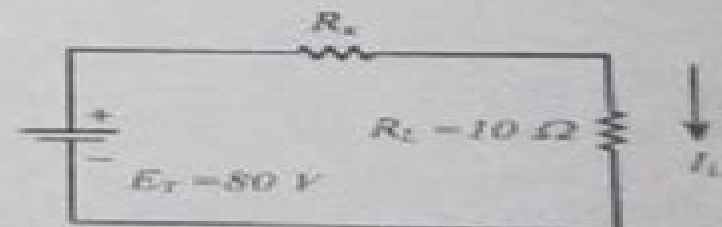
$$V_R = 750 - 100 [(0.27 + 0.06)(5)]$$

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

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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

S. N. Sivanandam



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**

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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

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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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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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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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