

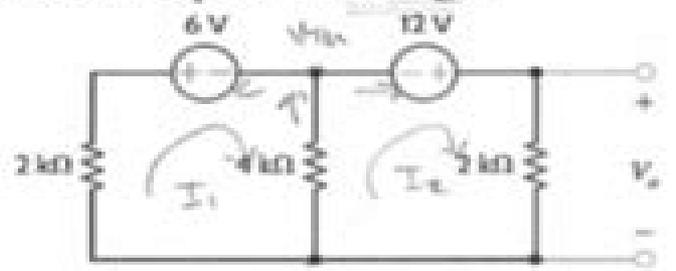
~~Rya~~ Cotto

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EEL3111 | Circuit Analysis I | Test #2

Solve all the problems.

1. (10 points) Find the Thévenin equivalent resistance of the circuit below. Find also the Thévenin equivalent voltage.

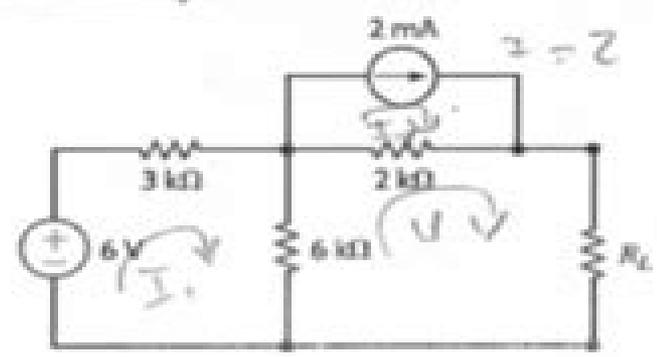


$$R_{th} = \frac{(2)(4)}{2+4} = \frac{8}{6}$$

$$R_{th} = \frac{(\frac{4}{3})(2)}{\frac{2}{3} + 2} = \frac{8}{8} = 1 \text{ k}\Omega$$

$$\begin{aligned} \text{KVL: } -2I_1 - 6 - 4(I_1 - I_2) &= 0 \\ -4(I_2 - I_1) + 12 &= 0 \\ -6 - 6I_1 + 4I_2 &= 0 \\ \boxed{-6I_1 + 4I_2 = 6} \\ 1I_1 + 4I_2 + 12 &= 0 \end{aligned}$$

2. (10 points) Find R_L such that it draws maximum power from the circuit below.



$$R_L = \frac{(3)(6)}{3+6} = 2$$

$$\begin{aligned} 2+2 &= 4 \\ R_L &= 4 \text{ k}\Omega \end{aligned}$$

Circuit Analysis Problems And Solutions

Mehdi Rahmani-Andebili



Circuit Analysis 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

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

Advanced Electrical Circuit Analysis Mehdi Rahmani-Andebili, 2022 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 Exercises cover a wide selection of basic and advanced questions and problem 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

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 *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 **Prob. & Solutions in Electric Circuit Analysis** Mehta; Mal,2002-02-01 *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 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 to 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

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

MATLAB Lessons, Examples, and Exercises Mehdi Rahmani-Andebili, 2024-12-06 MATLAB Lessons Examples and Exercises A Tutorial for Beginners and Experts is a book for anyone interested in learning MATLAB a popular programming language used in mathematics engineering and science Whether you re a student instructor engineer or technical professional this book provides easy to follow lessons examples and exercises in each section of every chapter emphasizing writing and executing code to help you become proficient in programming with MATLAB Different colors make the code outputs and program descriptions more straightforward to read to improve reader comprehension The book covers all the essential functions of MATLAB that are needed in math engineering and science and it explains the math behind each function so you can apply them to solve real world problems Whether you re new to programming or an expert this book offers clear explanations diverse examples and hands on exercises to help you improve your MATLAB programming skills and understand how to use MATLAB in various fields

Circuit Analysis of A-C Power Systems Edith Clarke, 1943

Electric Circuits and Networks K. S. Suresh Kumar, K. S. Suresh Kumar, 2008-08-05 Electric Circuits and Networks is designed to serve as a textbook for a two semester undergraduate course on basic electric circuits and networks The book builds on the subject from its basic principles Spread over seventeen chapters the book can be taught with varying degree of emphasis on its six subsections based on the course requirement Written in a student friendly manner its narrative style places adequate stress on the principles that govern the behaviour of electric circuits and networks

Electric Circuit Analysis Steven G. Conahan, 1996

Power System Analysis Mehdi Rahmani-Andebili, 2024-11-04 Power System Analysis Comprehensive Lessons is designed for upper level undergraduate and graduate students taking electric power system analysis courses The classroom tested textbook covers the fundamental concepts in power system analysis per unit system single phase and three phase transformers synchronous generators transmission line parameters transmission line models and performance bus admittance and impedance matrices and power flow analysis It provides comprehensive lessons with examples that offer detailed solutions to help students learn theoretical numerical and real world problems Additionally partially solved exercises encourage students to solve problems while guiding them through the problem solving process with hints to the required formulas and exercises with final answers encourage students to practice independently Problems without solutions or final

answers will aid instructors in designing tests and quizzes and encourage motivated students This textbook will improve students problem solving skills and foster a solid understanding of power system analysis by offering detailed lessons and problem solutions multiple methods for solving problems and clear explanations of concepts Engineering Circuit Analysis William Hart Hayt, Jack Ellsworth Kemmerly, 1993 This is a student solutions manual which accompanies a text offering coverage of operational amplifiers problems using SPICE worked out examples and end of chapter problems The main text includes added coverage of state space variable analysis **The Analysis and Design of Linear Circuits** Roland E. Thomas, Albert J. Rosa, Gregory J. Toussaint, 2023-04-25 THE ANALYSIS AND DESIGN OF LINEAR CIRCUITS Textbook covering the fundamentals of circuit analysis and design now with additional examples exercises and problems The Analysis and Design of Linear Circuits 10th Edition taps into engineering students desire to explore create and put their learning into practice by presenting linear circuit theory with an emphasis on circuit analysis and how to evaluate competing designs The text integrates active and passive linear circuits allowing students to understand and design a wide range of circuits solve analytical problems and devise solutions to problems The authors use both phasors and Laplace techniques for AC circuits enabling better understanding of frequency response filters AC power and transformers The authors have increased the integration of MATLAB and Multisim in the text and revised content to be up to date with technology when appropriate The text uses a structured pedagogy where objectives are stated in each chapter opener and examples and exercises are developed so that the students achieve mastery of each objective The available problems revisit each objective and a suite of problems of increasing complexity task the students to check their understanding Topics covered in The Analysis and Design of Linear Circuits 10th Edition include Basic circuit analysis including element connection combined and equivalent circuits voltage and current division and circuit reduction Circuit analysis techniques including node voltage and mesh current analysis linearity properties maximum signal transfer and interface circuit design Signal waveforms including the step exponential and sinusoidal waveforms composite waveforms and waveform partial descriptors Laplace transforms including signal waveforms and transforms basic properties and pairs and pole zero and Bode diagrams Network functions including network functions of one and two port circuits impulse response step response and sinusoidal response An appendix that lists typical RLC component values and tolerances along with a number of reference tables and OP AMP building blocks that are foundational for analysis and design With an overarching goal of instilling smart judgment surrounding design problems and innovative solutions The Analysis and Design of Linear Circuits 10th Edition provides inspiration and motivation alongside an essential knowledge base The text is designed for two semesters and is complemented with robust supplementary material to enhance various pedagogical approaches including an Instructors Manual which features an update on how to use the book to complement the 2022 23 ABET accreditation criteria 73 lesson outlines using the new edition additional Instructor Problems and a Solutions Manual These resources can be found on the companion website <https://www.bcs.wiley.com> he bcs Books

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