

Circuit analysis practice problems

1. Using KVL and KCL, determine the unknown currents I_C , I_D and the unknown voltages V_B and V_D in the circuit given in Fig.1.

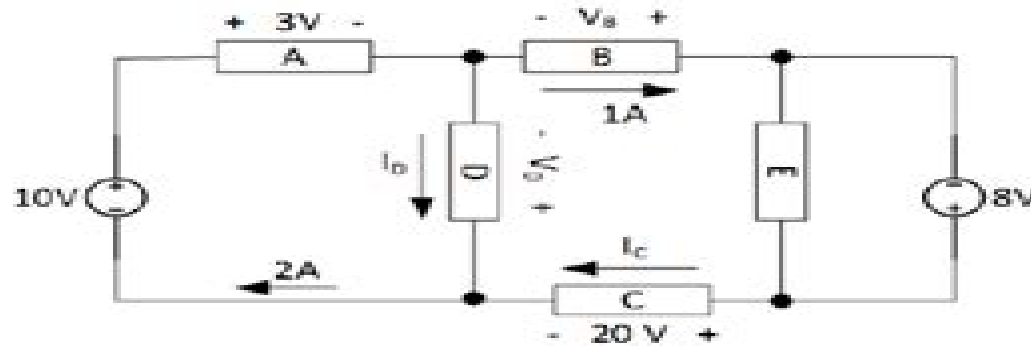


Figure 1: Practice problem

2. Using series/parallel rule, determine the current I in Fig.2.

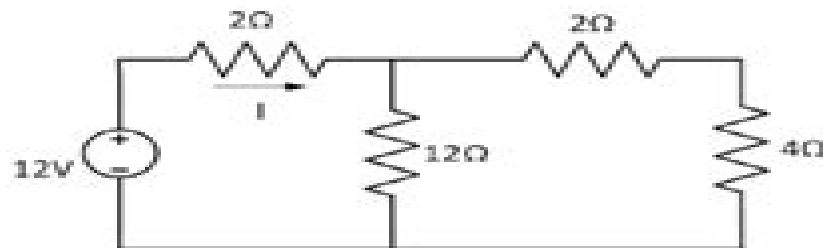


Figure 2: Practice problem

3. Using branch current method, determine the unknown currents I_1 , I_2 and I_3 in the circuit given in Fig.3.

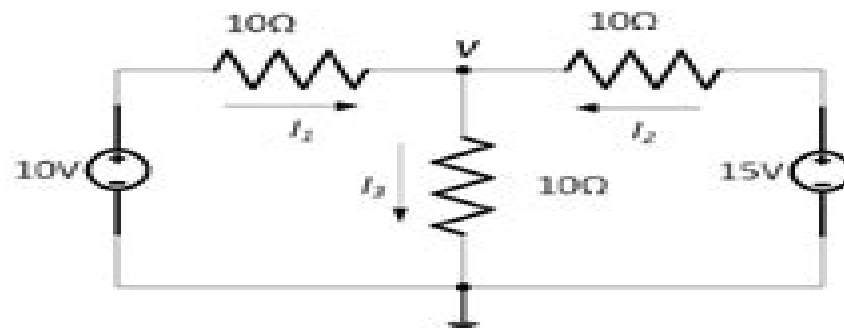


Figure 3: Practice problem

Circuit Analysis Problems And Solutions

Mehdi Rahmani-Andebili



Circuit Analysis Problems And Solutions:

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 *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 and Solutions in Electronics* R. Loxton, 1994-03-31 This book of problems with worked solutions is designed to provide practice in problem solving for students on undergraduate and HND programmes in Electronics It may be used as a stand alone book or as a companion volume to *Electronics* by Crecraft Gorham and Sparkes Chapman Hall 1992 **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 *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 **Introduction to Electric Circuits** Richard C. Dorf, James A. Svoboda, 2010-01-07 The central theme of Introduction to Electric Circuits is the concept that electric circuits are a part of the basic fabric of modern technology Given this theme this book endeavors to show how the analysis and design of electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic communication computer and control systems as well as consumer products This book is designed for a one to three term course in electric circuits or linear circuit analysis and is structured for maximum flexibility **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 **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

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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

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

DC Electric Machines, Electromechanical Energy Conversion Principles, and Magnetic Circuit Analysis Mehdi Rahmani-Andebili, 2022-10-10 This study guide is designed for students taking courses in DC electric machines principles of electromechanical energy conversion and magnetic 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 and advanced understanding of the topics covered

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

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

Analog Circuit Theory and Filter Design in the Digital World George S. Moschytz, 2019-04-15 This textbook is designed for graduate level courses and for self study in analog and sampled data including switched capacitor circuit theory and design for ongoing or active electrical engineers needing to become proficient in analog circuit design on a system rather than on a device level After decades of experience in industry and teaching this material in academic settings the author has extracted many of the most important and useful features of analog circuit theory and design and presented them in a manner that is easy to digest and utilize The methodology and analysis techniques presented can be applied to areas well beyond those specifically addressed in this book This book is meant to enable readers to gain a general knowledge of one aspect of analog engineering e g that of network theory filter design system theory and sampled data signal processing The presentation is self contained and should be accessible to anyone with a first degree in electrical engineering

AC Electrical Circuit Analysis Mehdi

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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 *Electric Circuit Analysis* Steven G. Conahan,1996 **Powers and Compensation in Circuits with Nonsinusoidal Current** Leszek Czarnecki,2025-07-10 Powers and compensation in circuits with nonsinusoidal currents discusses one of the most controversial problems in electrical engineering the definitions of electrical powers and compensation Many approaches to explain the power properties of electrical circuits and their compensation has occurred over a vast number of publications and referred to as the schools of power theory PT These debates have caused substantial confusion in the electrical engineering community The development of the Current s Physical Components CPC based power theory by the author of this book was a major contribution to the debate on powers and compensation This book explains all the power related physical phenomena in electrical circuits and creates fundamentals for compensation in circuits of any complexity with linear and nonlinear loads in single and three phase circuits using reactance switching and hybrid

compensators in terms of CPC power based theory It also discusses some common misinterpretations of power related phenomena This book was written as a by product of more than 30 years of teaching at Louisiana State University of undergraduate and graduate courses on powers and compensation and supervising the development of graduate Msc theses and Ph D dissertations Therefore this book can serve as a major reference for teaching power courses and for those involved in studies on powers and compensation in circuits with nonsinusoidal currents

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