



From branch AB we can write,

$$I_3 = 2 \text{ A} \quad \dots (1)$$

From branch DG we can write,

$$I_2 - I_1 = 8 \text{ A} \quad \dots (2)$$

Now apply KVL to the loop without current source i.e.

loop C-D-E-H-G-F-C,

$$-1 \times I_3 - 1 \times I_1 - 3I_3 - 3I_2 - 4I_2 + 24 = 0$$

$$\therefore 4I_3 + 7I_2 + I_1 = 24 \quad \dots (3)$$

Using (1) and (2) in (3) we get,

$$8 + 7I_2 + (I_2 - 8) = 24$$

$$\therefore 8I_2 = 24$$

$$\therefore I_2 = 3 \text{ A}$$

This is current through 4 Ω resistor. So power delivered to the 4 Ω resistor is,

$$P = I_2^2 \times 4 = 3^2 \times 4 = 36 \text{ W}$$

3- اوجد التيار I_1 مستخدما التيارات الحلقية.

Electrical Circuit Theory Solved Problems

Nikolaos Papamarkos



Electrical Circuit Theory Solved 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

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 *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 **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

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Theorems for Electrical Circuits Alfonso Bachiller Soler, Ramón Cano González, Miguel Angel González Cagigal, 2024-12-28 This book focuses on the practical application of specific theorems in solving electrical circuits Specifically it covers the theorems of Superposition Thevenin Norton and Maximum Power Transfer The theory is kept concise yet all the necessary concepts are explained and plentiful problems are solved in detail A vast amount of figures is used for a more effective learning All in all this book helps undergraduate and graduate students to develop the necessary skills to solve a broad range of transient exercises It offers a unique complementary text to classical electric circuit textbooks for students and self study as well

Solved Problems for Transient Electrical Circuits Alfonso Bachiller Soler, Ramón Cano Gonzalez, Miguel Angel González Cagigal, 2021-11-25 This book has been designed for helping students and other interested readers to solve first and second order circuits problems in the time domain and to use the Laplace transform The theory is kept concise yet all the necessary concepts are explained and plentiful problems are solved in detail A vast amount of figures is used for a more effective learning All in all this book will help undergraduate and graduate students to develop the necessary skills to solve a broad range of transient exercises It offers a unique complementary text to classical electric circuit textbooks for students and self study as well

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

Heaviside's Electrical Circuit Theory Louis Cohen, 1928 *Electric Circuit Problems with Solutions* Benson, 1973-01-01 **Foundations of Electric Circuits** J. R. Cogdell, 1999 Extracted from the highly successful Foundations of Electrical Engineering by the same author this book designed for a non major one semester course with coverage of electric circuits introduces concepts and vocabulary that are defined clearly and accurately key unifying ideas in electric circuits are identified with icons in the margins and problem solving techniques are presented in the many examples The book presents basic circuit analysis techniques first and second order transient analysis AC circuit theory transient and

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THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING, Second Edition KOTHARI, D. P.,NAGRATH, I. J.,2016-08-19 This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE GATE and graduate IETE The text provides a lucid yet exhaustive exposition of the fundamental concepts techniques and devices in basic electrical engineering through a series of carefully crafted solved examples multiple choice objective type questions and review questions The book covers in general three major areas electric circuit theory electric machines and measurement and instrumentation systems KEY FEATURES Includes over 1000 Examples Provides about 340 MCQs Furnishes a large number of Solved Problems Contains around 200 Review Questions Gives about 180 Unsolved Problems with Answers NEW TO THE SECOND EDITION Provides learning objectives of each chapter Updates theoretical knowledge and rectify solutions to the examples wherever necessary Introduces more review questions and solved examples in each chapter for practice

THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING D. P. KOTHARI,I. J. NAGRATH,1998-01-01 For the first time in India we have a comprehensive introductory book on Basic Electrical Engineering that caters to undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE GATE and graduate IETE The book provides a lucid yet exhaustive exposition of the fundamental concepts techniques and devices in basic electrical engineering through a series of carefully crafted solved examples multiple choice objective type questions and review questions The book covers in general three major areas electric circuit theory electric machines and measurement and instrumentation systems

Electric Circuit Theory & Calculations William Perren Maycock,1913

Inverse Problems in Electric Circuits and Electromagnetics N.V. Korovkin,V.L. Chechurin,M. Hayakawa,2007-04-14 The design and development of electrical devices involves choosing from many possible variants that which is the best or optimum according to one or several criteria These optimization criteria are usually already clear to the designer at the statement of the design problem The methods of optimization considered in this book allow us to sort out variants of the realization of a design on the basis of these criteria and to create the best device in the sense of the set

criteria Optimization of devices is one of the major problems in electrical engineering that is related to an extensive class of inverse problems including synthesis diagnostics fault detection identification and some others with common mathematical properties When designing a device the engineer actually solves inverse problems by defining the device structure and its parameters and then proceeds to deal with the technical specifications followed by the incorporation of his own notions of the best device Frequently the solutions obtained are based on intuition and previous experience New methods and approaches discussed in this book will add mathematical rigor to these intuitive notions By virtue of their urgency inverse problems have been investigated for more than a century However general methods for their solution have been developed only recently An analysis of the scientific literature indicates a steadily growing interest among scientists and engineers in these problems

Electric Circuits James William Nilsson, Susan A. Riedel, 2008 Designed for use in a one or two semester Introductory Circuit Analysis or Circuit Theory Courses taught in Electrical or Computer Engineering Departments The most widely used introductory circuits textbook Emphasis is on student and instructor assessment and the teaching philosophies remain To build an understanding of concepts and ideas explicitly in terms of previous learning To emphasize the relationship between conceptual understanding and problem solving approaches To provide students with a strong foundation of engineering practices Solved Problems in Classical Electromagnetism J. Pierrus, 2018-08-02 Classical electromagnetism one of the fundamental pillars of physics is an important topic for all types of physicists from the theoretical to the applied The subject is widely recognized to be one of the most challenging areas of the physics curriculum both for students to learn and for lecturers to teach Although textbooks on electromagnetism are plentiful hardly any are written in the question and answer style format adopted in this book It contains nearly 300 worked questions and solutions in classical electromagnetism and is based on material usually encountered during the course of a standard university physics degree Topics covered include some of the background mathematical techniques electrostatics magnetostatics elementary circuit theory electrodynamics electromagnetic waves and electromagnetic radiation For the most part the book deals with the microscopic theory although we also introduce the important subject of macroscopic electromagnetism as well Nearly all questions end with a series of comments whose purpose is to stimulate inductive reasoning and reach various important conclusions arising from the problem Occasionally points of historical interest are also mentioned Both analytical and numerical techniques are used in obtaining and analyzing solutions All computer calculations are performed with Mathematica and the relevant code is provided in a notebook either in the solution or the comments **Electric Circuits and Signals** Nassir H.

Sabah, 2017-12-19 Solving circuit problems is less a matter of knowing what steps to follow than why those steps are necessary And knowing the why stems from an in depth understanding of the underlying concepts and theoretical basis of electric circuits Setting the benchmark for a modern approach to this fundamental topic Nassir Sabah's *Electric Circuits and Signals* supplies a comprehensive intuitive conceptual and hands on introduction with an emphasis on creative problem

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Electric Circuit Analysis S. P. Eugene Xavier, 2007 The Book Deals With The Various Principles Involved In The Analysis Of Electric Circuits The Book Has Been Written To Fulfill The Requirements As A Text For The Subjects Like Circuit Theory Electric Circuits And Electric Circuit Analysis This Book Is Intended As A Text For Undergraduate Level Courses In Electrical Electronics Instrumentation And Control Engineering More Than 300 Solved Problems Unsolved Exercises And Objective Type Questions Are Given As Part Of This Text

Electrical Circuit Theory and Technology, 5th ed John Bird, 2014-02-20 This much loved textbook explains the principles of electrical circuit theory and technology so that students of electrical and mechanical engineering can master the subject Real world situations and engineering examples put the theory into context The inclusion of worked problems with solutions help you to learn and further problems then allow you to test and confirm you have fully understood each subject In total the book contains 800 worked problems 1000 further problems and 14 revision tests with answers online This an ideal text for foundation and undergraduate degree students and those on upper level vocational engineering courses in particular electrical and mechanical It provides a sound understanding of the knowledge required by technicians in fields such as electrical engineering electronics and telecommunications This edition has been updated with developments in key areas

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