

EEE3110 Circuit Theory

Assignment 2

Answer ALL questions (Total marks: 100 marks)

Note: Please write your answers and step clearly on A4 size paper.

Q1. Referring to the AC circuit in Figure. 1

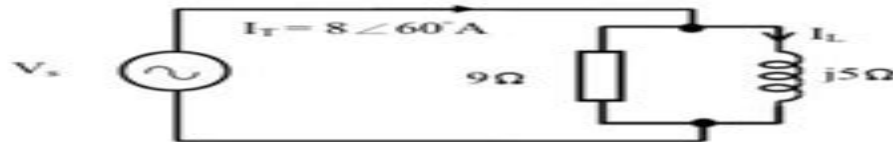


Figure. 1

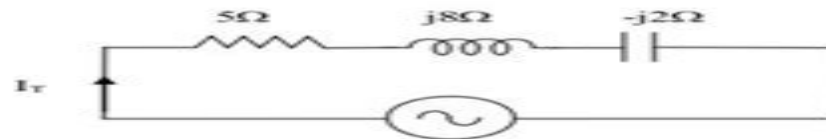
- (a) Determine the voltage source V_s in polar form.
- (b) By using the current divider rule, find the current I_L flowing through the inductor in polar form.
- (c) Hence, determine the current flows through the 9Ω resistor.

Total:
(15 marks)

Q2. Referring to the series RLC circuit in Figure. 2

- (a) Calculate total impedance Z_T and current I_T in phasor domain.
- (b) Draw the phasor diagram of the voltage V and the current I_T .
- (c) Determine:
 - (i) the real power;
 - (ii) the reactive power;
 - (iii) the apparent power; and
 - (iv) the phase angle.
- (d) Draw the power triangle (clearly label the values of the phase angle, real power, reactive power, and apparent power in your diagram).
- (e) Determine the power factor and state if it is leading or lagging.

Total:
(30 marks)



$$V = 60\angle 0^\circ \text{ V}$$

Figure. 2

EEE3110 Circuit Theory

Q3. A 110V, 50Hz single-phase power supply feeds the following circuit shown in Figure. 3. Determine:

- (a) the total active power and reactive power taken from the power supply;

Circuit Theory Questions And Answers

John Bird



Circuit Theory Questions And Answers:

Fundamentals of Electric Circuit Theory D Chattopadhyay | PC Rakshit, 2000-11 This book presents the subject matter in a clear and concise manner with numerous diagrams and examples Network Theory: Analysis and Synthesis : For the University of Mumbai Ravish R. Singh, This book is core to the understanding of engineering of Electronics and Telecommunications and hence it becomes an important subject for students of Electronics Telecommunication Engineering and Electronics Engineering in their Third Semester A strong conceptual understanding of the subject is what the textbook lends to its reader and an apart from an emphasis on problem solving approach and discussion on both analysis and synthesis of networks It offers ample coverage of DC circuits network theorems transient analysis two port networks and network synthesis among other major topics Engineering Physics MCQ (Multiple Choice Questions) Arshad Iqbal, The Engineering Physics Multiple Choice Questions MCQ Quiz with Answers PDF Engineering Physics MCQ PDF Download Quiz Questions Chapter 1 36 Practice Tests with Answer Key Physics Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Engineering Physics MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Engineering Physics MCQ PDF book helps to practice test questions from exam prep notes The Engineering Physics MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Engineering Physics Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Alternating fields and currents astronomical data capacitors and capacitance circuit theory conservation of energy coulomb s law current produced magnetic field electric potential energy equilibrium indeterminate structures finding electric field first law of thermodynamics fluid statics and dynamics friction drag and centripetal force fundamental constants of physics geometric optics inductance kinetic energy longitudinal waves magnetic force models of magnetism newton s law of motion Newtonian gravitation Ohm s law optical diffraction optical interference physics and measurement properties of common elements rotational motion second law of thermodynamics simple harmonic motion special relativity straight line motion transverse waves two and three dimensional motion vector quantities work kinetic energy theorem tests for college and university revision guide Engineering Physics Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book Engineering Physics MCQs Chapter 1 36 PDF includes high school question papers to review practice tests for exams Engineering Physics Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET Jobs Entry Level competitive exam Engineering Physics Mock Tests Chapter 1 36 eBook covers problem solving exam tests from physics textbook and practical eBook chapter wise as Chapter 1 Alternating Fields and Currents MCQ Chapter 2 Astronomical Data MCQ Chapter 3 Capacitors and Capacitance MCQ Chapter 4 Circuit Theory MCQ Chapter 5 Conservation of Energy MCQ Chapter 6 Coulomb s Law MCQ Chapter 7 Current Produced Magnetic Field

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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

Circuit Analysis and Feedback Amplifier Theory Wai-Kai Chen, 2018-10-03

Culled from the pages of CRC's highly successful best selling The Circuits and Filters Handbook Second Edition Circuit Analysis and Feedback Amplifier Theory presents a sharply focused comprehensive review of the fundamental theory behind professional applications of circuits and feedback amplifiers It supplies a concise convenient reference to the key concepts models and equations necessary to analyze design and predict the behavior of large scale circuits and feedback amplifiers illustrated by frequent examples Edited by a distinguished authority this book emphasizes the theoretical concepts underlying the processes behavior and operation of these devices It includes guidance on the design of multiple loop feedback amplifiers More than 350 figures and tables illustrate the concepts and where necessary the theories principles and mathematics of some subjects are reviewed Expert contributors discuss analysis in the time and frequency domains symbolic analysis state variable techniques feedback amplifier configurations general feedback theory and network functions and feedback among many other topics Circuit Analysis and Feedback Amplifier Theory builds a strong theoretical foundation for the design and analysis of advanced circuits and feedback amplifiers while serving as a handy reference for experienced engineers making it

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Electrical and Electronic Principles and Technology John Bird, 2017-03-31 This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering electronics and telecommunications No previous background in engineering is assumed making this an ideal text for vocational courses at Levels 2 and 3 foundation degrees and introductory courses for undergraduates

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

Introduction to Nanoelectronic Single-Electron Circuit Design Jaap Hoekstra, 2016-10-14 Today the concepts of single electron tunneling SET are used to understand and model single atom and single molecule nanoelectronics The characteristics of nanoelectronic devices especially SET transistors can be understood on the basis of the physics of nanoelectronic devices and circuit models A circuit theory approach is necessary for considering possible integration with current microelectronic circuitry To explain the properties and possibilities of SET devices this book follows an approach to modeling these devices using electronic circuit theory All models and equivalent circuits are derived from the first principles of circuit theory Based on energy conservation the circuit model of SET is an impulsive current source and modeling distinguishes between bounded and unbounded currents The Coulomb blockade is explained as a property of a single junction In addition this edition differs from the previous one by elaborating on the section on spice simulations and providing a spice simulation on the SET electron box circuit including the spice netlist Also a complete new proof of the two capacitor problem in circuit theory is presented the importance of this proof in understanding energy conservation in SET circuits cannot be underestimated This book will be very useful for advanced undergraduate and graduate level students of electrical engineering and nanoelectronics and researchers in nanotechnology nanoelectronic device physics and computer science Only book modeling both single electron tunneling and many electron tunneling from the points of view of electronics starting from experiments via a physics description working towards a circuit description and based on energy conservation in electrical circuits developing the impulse circuit model for single electron tunneling

Electric Circuits And Networks (For Gtu) Kumar K. S. Suresh, 2010-09 **Linear Integrated Circuit** B. T. Krishna, 2025-06-01 , **Linguistic and Cultural Studies: Traditions and Innovations** Andrey Filchenko, Zhanna Anikina, 2017-09-18 This book features contributions to the XVIIth International Conference Linguistic and Cultural Studies

Traditions and Innovations LKTI 2017 providing insights into theory research scientific achievements and best practices in the fields of pedagogics linguistics and language teaching and learning with a particular focus on Siberian perspectives and collaborations between academics from other Russian regions Covering topics including curriculum development designing and delivering courses and vocational training the book is intended for academics working at all levels of education striving to improve educational environments in their context school tertiary education and continuous professional development

Surface Electromagnetics Fan Yang, Yahya Rahmat-Samii, 2019-06-20 Written by the leading experts in the field this text provides systematic coverage of the theory physics functional designs and engineering applications of advanced engineered electromagnetic surfaces All the essential topics are included from the fundamental theorems of surface electromagnetics to analytical models general sheet transmission conditions GSTC metasurface synthesis and quasi periodic analysis A plethora of examples throughout illustrate the practical applications of surface electromagnetics including gap waveguides modulated metasurface antennas transmit arrays microwave imaging cloaking and orbital angular momentum OAM beam generation allowing readers to develop their own surface electromagnetics based devices and systems Enabling a fully comprehensive understanding of surface electromagnetics this is an invaluable text for researchers practising engineers and students working in electromagnetics antennas metasurfaces and optics

Basic Electrical and Electronics Engineering-I (For ASTU Assam) Bandyopadhyay, Jyoti Prasad, Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of ASTU those who find learning concepts difficult and want to study through solved examples and those who wish to study the traditional way A large number of solved examples are the backbone of this series and are aimed at instilling confidence in the students to take on the examinations Basic Electrical and Electronics Engineering I has been specially designed to serve as a textbook for an introductory course on basic electrical and electronics engineering It meets the requirements of a large spectrum of 1st semester undergraduate students of all branches of engineering The book has been developed with an eye on the interpretation of concepts and application of theories The language has been kept very simple so that students are able to assimilate the subject matter with ease A large number of solved examples have also been provided for self assessment Key Features Complete coverage of all the modules of the syllabi of ASTU and also useful for GATE and other graduate level exams Comprehensive and lucid presentation of the basic concepts Over 200 worked out examples including conceptual guidelines Over 380 multiple choice questions with answers A large number of short questions and answers

Electrical and Electronic Principles and Technology, 5th ed John Bird, 2013-11-12 This much loved textbook introduces electrical and electronic principles and technology to students who are new to the subject Real world situations and engineering examples put the theory into context The inclusion of worked problems with solutions really help aid your understanding and further problems then allow you to test and confirm you have mastered each subject In total the books contains 410 worked problems 540 further problems 340 multiple choice questions

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Electrical Principles and Technology for

Engineering John Bird,2013-10-22 The aim of this book is to introduce students to the basic electrical and electronic principles needed by technicians in fields such as electrical engineering electronics and telecommunications The emphasis is on the practical aspects of the subject and the author has followed his usual successful formula incorporating many worked examples and problems answers supplied into the learning process Electrical Principles and Technology for Engineering is John Bird s core text for Further Education courses at BTEC levels N11 and N111 and Advanced GNVQ It is also designed to provide a comprehensive introduction for students on a variety of City Guilds courses and any students or technicians requiring a sound grounding in Electrical Principles and Electrical Power Technology

Circuit Simulation Methods and Algorithms Jan Ogradzki,2018-05-04 Circuit Simulation Methods and Algorithms provides a step by step theoretical consideration of methods techniques and algorithms in an easy to understand format Many illustrations explain more difficult problems and present instructive circuits The book works on three levels The simulator user level for practitioners and students who want to better understand circuit simulators The basic theoretical level with examples dedicated to students and beginning researchers The thorough level for deep insight into circuit simulation based on computer experiments using PSPICE and OPTIMA Only basic mathematical knowledge such as matrix algebra derivatives and integrals is presumed

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