

Question 1

Apply nodal analysis to find the V_1 , V_2 , and V_3 as shown in Figure Q1. Show the schematic diagram and simulation output using **PSPICE**. From the result obtained, mark and label each of the voltage nodes, respectively.

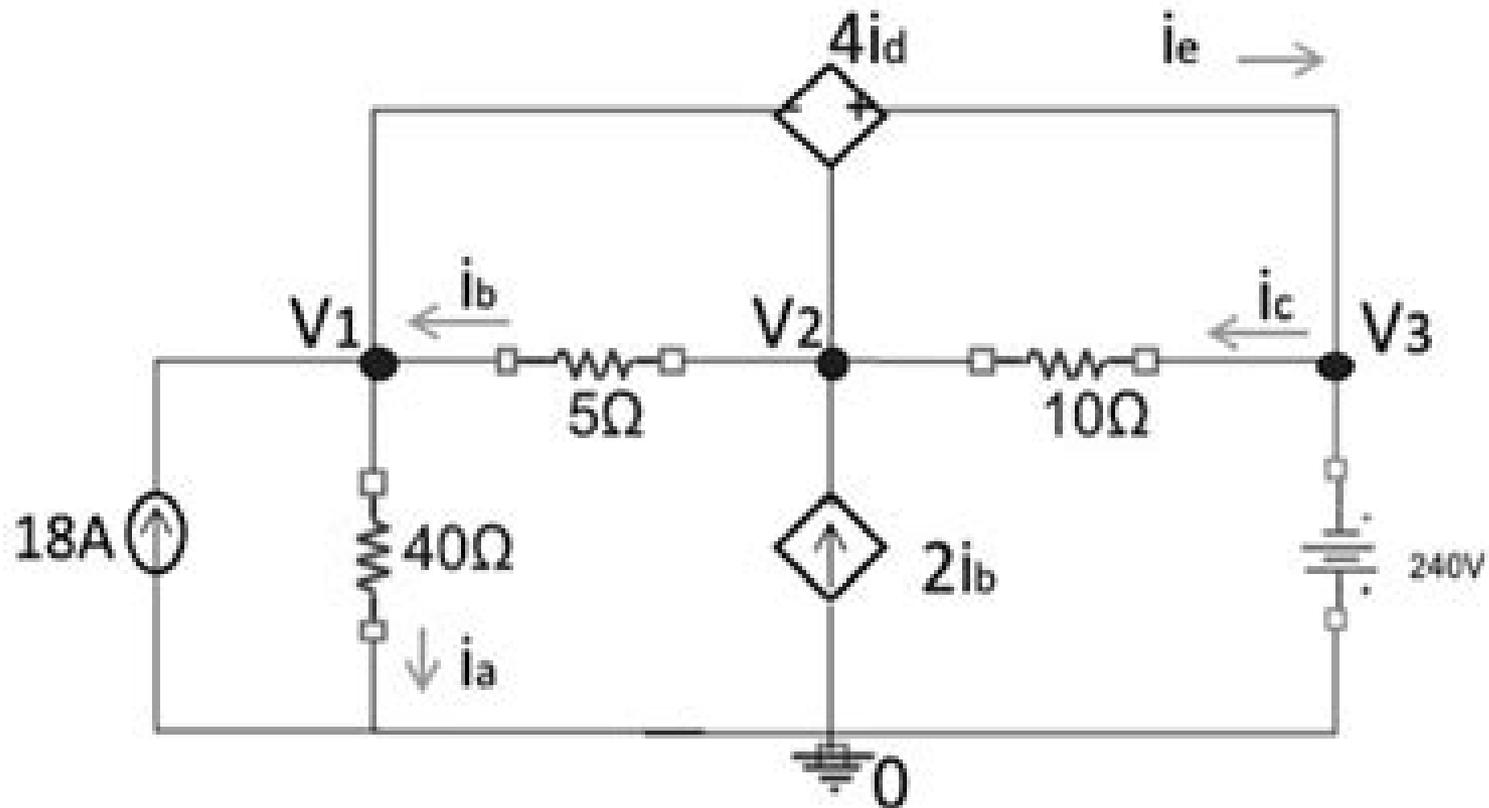


Figure Q1

(10 Marks)

Use Of Pspice In Circuit Analysis

Clayton R. Paul



Use Of Pspice In Circuit Analysis:

SPICE Paul W. Tuinenga,1988 *Spice* Paul W. Tuinenga,1988-01-01 Revision of best selling guide to the PSpice circuit simulator by an authoritative author Provides a tutorial approach to using PSpice through graduated examples Comprehensive coverage of the newest capabilities of this program Explains the use of Monte Carlo methods in PSpice for statistically computing estimates of how circuits will behave with variations in component values Explains the use of sensitivity calculations and worst case analysis in PSpice for discovering the maximum range of circuit performance and the causes of extreme operations Two Port Network Analysis explains derivation and use of two port parameters including s parameters **PSpice for Basic Circuit Analysis** Joseph G. Tront,2004 Fundamentals of Electric Circuit Analysis

Clayton R. Paul,2001 Focusing on the development of fundamental skills this new text is designed for a one semester course in the analysis of linear circuits The author meticulously covers the important topics within a sound pedagogical organization while minimizing unnecessary detail so that the student can develop a lasting and sound set of analysis skills The major topics presented include the analysis of resistive circuits including controlled sources and op amps and the analysis of circuits in the sinusoidal steady state phasor analysis Emphasized also is the analysis of circuits in the time domain in response to a disturbance switching operations and the unit step and unit impulse responses and is developed primarily using the Laplace transform A brief description of the classical method of solving the circuit differential equations is included

OrCAD PSpice with Circuit Analysis Franz Monssen,2001 Especially appropriate for those approaching electrical engineering concepts computers and PSpice for the first time this text introduces circuit topics and relevant PSpice features together using a highly effective complimentary approach Comprehensive and substantive in coverage yet well organized concise and accessible it allows users to gain hands on experience in applying the latest versions of PSpice to the many kinds of problems arising in electrical circuits Chapter titles include PSpice Analysis of DC Circuits DC Network Theorems Transients in RC and RL Circuits Sinusoidal Waveforms in Resistive Circuits Steady State Sinusoidal Response of RC RL and RLC Circuits The Total Response of RC RL and RLC Circuits with Sinusoidal Sources Alternating Current Network Theorems Power and Energy in Alternating Current Circuits Frequency Response of RC RL and RLC Circuits and Circuits with Non Sinusoidal Sources For in house training programs of companies that are involved in the electric electronic field and professionals who ant to become competent in the use of PSpice e Operational Amplifiers and Their Applications Sarkar, Subir Kumar,1999-12 Differential Amplifier 2 Operational Amplifier 3 Basic Operational Amplifier 4 Frequency Response And Compensation Of Operational Amplifier 5 Signal Conditioning Circuits 6 Active Filter Circuit 7 Noise Control In Operational Amplifiers 8 Operational Amplifier Applications 9 More Operational Amplifier Applications 10 Application Of Spice Pspice In The Analysis Of Operational Amplifier Circuits 11 Practical Experiments On Operational Amplifier Extra Problems On Operational Amplifiers Review Questions And Answers Multiple Choice Questions Additional Multiple Choice Questions

Appendix A B C D Index **Schaum's Outline of Basic Circuit Analysis** John O'Malley, 1992 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved **Electrical Circuit Analysis Using the TI-85 Or TI-86** Richard Aston, 2000 For courses in DC AC Circuits Innovative in approach this text uses the hand held programmable graphing calculator as both a calculating tool and a pedagogical tool to teach students how to do classical circuit analysis and how to make mathematical models of electrical networks that can be programmed on the TI 85 or 86 Introduces a generic method that is compatible with any mathematical computer program e g MathCAD This unique approach allows students to spend time writing programs that can actually be used and to make computer studies of large circuits specified by R L C elements rather than getting bogged down by tedious calculations **Linear Circuit Analysis** Chi Kong Tse, 1998 Linear Circuit Analysis provides concise and practical treatment of the basics of circuits suitable for undergraduates Whilst mathematical rigour is not sacrificed the book is written in an easily readable style and also covers many topics from a practical non mathematical perspective For those lecturers that wish to explore other teaching methods the later chapters offer an introduction to the topological method of analysis The text is ideal for a first course in circuits as the text starts by recapping basics such as Ohm s law before covering the nodal mesh approach to circuit analysis As such it equips students with effective analytical skills which will form a solid basis for the rest of their electronic engineering course **PSPICE and MATLAB for Electronics** John Okyere Attia, 2010-06-23 Used collectively PSPICE and MATLAB are unsurpassed for circuit modeling and data analysis PSPICE can perform DC AC transient Fourier temperature and Monte Carlo analysis of electronic circuits with device models and subsystem subcircuits MATLAB can then carry out calculations of device parameters curve fitting numerical integration nume **SPICE and LTspice for Power Electronics and Electric Power** Muhammad H. Rashid, 2024-11-13 Power electronics can be a difficult course for students to understand and for professional professors to teach simplifying the process for both LTspice for power electronics and electrical power edition illustrates methods of integrating industry standard LTspice software for design verification and as a theoretical laboratory bench Helpful LTspice software and Program Files Available for Download Based on the author Muhammad H Rashid s considerable experience merging design content and SPICE into a power electronics course this vastly improved and updated edition focuses on helping readers integrate the LTspice

simulator with a minimum amount of time and effort Giving users a better understanding of the operation of a power electronic circuit the author explores the transient behavior of current and voltage waveforms for every circuit element at every stage The book also includes examples of common types of power converters as well as circuits with linear and nonlinear inductors New in this edition Changes to run on OrCAD SPICE or LTspice IV or higher Students learning outcomes SLOs listed at the start of each chapter Abstracts of chapters List the input side and output side performance parameters of the converters The characteristics of power semiconductors diodes BJTs MOSFETs and IGBTs Generating PWM and sinusoidal PWM gating signals Evaluating the power efficiency of converters Monte Carlo analysis of converters Worst case analysis of converters Nonlinear transformer model Evaluate user defined electrical quantities MEASURE This book demonstrates techniques for executing power conversion and ensuring the quality of output waveform rather than the accurate modeling of power semiconductor devices This approach benefits students enabling them to compare classroom results obtained with simple switch models of devices Introduction to Circuit Analysis Ron Walls, Wes Johnstone, 1992

Introduction to PSpice Using OrCAD for Circuits and Electronics M. H. Rashid, 2004 This book uses a top down approach to introduce readers to the SPICE simulator It begins by describing techniques for simulating circuits then presents the various SPICE and OrCAD commands and their applications to electrical and electronic circuits Lavishly illustrated this new edition includes even more hands on exercises suggestions sample problems and circuit models of actual devices It is an ideal supplement for courses in electric or electronic circuitry and is also a solid professional reference BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved **Analog Electronics Applications** Hernando Lautaro Fernandez-Canque, 2016-09-19 This comprehensive text discusses the fundamentals of analog electronics applications design and analysis Unlike the physics approach in other analog electronics books this text focuses on an engineering approach from the main components of an analog circuit to general analog networks Concentrating on development of standard formulae for conventional analog systems the book is filled with practical examples and detailed explanations of procedures to analyze analog circuits The book covers amplifiers filters and op amps as well as general applications of analog design *Transform Circuit Analysis for Engineering and Technology* William D. Stanley, 1997 The third edition of this successful book retains the many essential features of the first and second editions that have appealed to its many users and has added valuable new material on PSPICE and MATLAB The outstanding core material includes waveform analysis including waveform synthesis using step and ramp functions capacitive and inductive transients with a special emphasis on graphical interpretation simplified treatment of first order circuits simplified treatment of the Laplace transform and its application to higher order circuits transfer function analysis and pole zero concepts sinusoidal steady state analysis and its relationship to transient analysis frequency response analysis fourier series analysis and Fourier transforms and introduction to discrete time systems including difference equations and the z transform New features include PSPICE

examples for most chapters and a new appendix providing PSPICE fundamentals and MATLAB examples for most chapters along with introductory material on MATLAB

SPICE for Power Electronics and Electric Power Muhammad H. Rashid, 2017-12-19 Power electronics can be a difficult course for students to understand and for professors to teach Simplifying the process for both SPICE for Power Electronics and Electric Power Third Edition illustrates methods of integrating industry standard SPICE software for design verification and as a theoretical laboratory bench Helpful PSpice Software and Program Files Available for Download Based on the author Muhammad H Rashid s considerable experience merging design content and SPICE into a power electronics course this vastly improved and updated edition focuses on helping readers integrate the SPICE simulator with a minimum amount of time and effort Giving users a better understanding of the operation of a power electronics circuit the author explores the transient behavior of current and voltage waveforms for each and every circuit element at every stage The book also includes examples of all types of power converters as well as circuits with linear and nonlinear inductors New in this edition Student learning outcomes SLOs listed at the start of each chapter Changes to run on OrCAD version 9 2 Added VPRINT1 and IPRINT1 commands and examples Notes that identify important concepts Examples illustrating EVALUE GVALUE ETABLE GTABLE ELAPLACE GLAPLACE EFREQ and GFREQ Mathematical relations for expected outcomes where appropriate The Fourier series of the output voltages for rectifiers and inverters PSpice simulations of DC link inverters and AC voltage controllers with PWM control This book demonstrates techniques of executing power conversions and ensuring the quality of the output waveforms rather than the accurate modeling of power semiconductor devices This approach benefits students enabling them to compare classroom results obtained with simple switch models of devices In addition a new chapter covers multi level converters Assuming no prior knowledge of SPICE or PSpice simulation the text provides detailed step by step instructions on how to draw a schematic of a circuit execute simulations and view or plot the output results It also includes suggestions for laboratory experiments and design problems that can be used for student homework assignments

Circuit Systems with MATLAB and PSpice Won Y. Yang, Seung C. Lee, 2008-04-15 Software tools applied to circuit analysis and design are rapidly evolving enabling students to move beyond the time consuming math intensive methods of traditional circuit instruction By incorporating MATLAB 7 0 and PSpice 10 0 alongside systematic use of the Laplace transform Yang and Lee help readers rapidly gain an intuitive understanding of circuit concepts Unified scheme using the Laplace transform accelerates comprehension Focuses on interpreting solutions and evaluating design results not laborious computation Most examples illustrated with MATLAB analyses and PSpice simulations Downloadable programs available for hands on practice Over 130 problems to reinforce and extend conceptual understanding Includes expanded coverage of key areas such as Positive feedback OP Amp circuits Nonlinear resistor circuit analysis Real world 555 timer circuit examples Power factor correction programs Three phase AC power system analysis Two port parameter conversion Based on decades of teaching electrical

engineering students Yang and Lee have written this text for a full course in circuit theory or circuit analysis Researchers and engineers without extensive electrical engineering backgrounds will also find this book a helpful introduction to circuit systems

OrCAD PSpice and Circuit Analysis John Keown,2001 Introduction PSpice Overview 1 DC Circuit Analysis 2 AC Circuit Analysis for Sinusoidal Steady State Conditions 3 Transistor Circuits 4 Multistage Amplifiers Frequency Response and Feedback 5 The Operational Amplifier 6 Transients and the Time Domain 7 Fourier Series and Harmonic Components 8 Stability and Oscillators 9 An Introduction to PSpice Devices 10 The Bipolar Junction and Its Model 11 The Field Effect Transistor 12 Two Port Networks and Passive Filters 13 Nonlinear Devices 14 Capture 15 Transistor Circuits in Schematics 16 Operational Amplifiers in Schematics 17 Other Topics in Schematics Appendix A Brief Summary of PSpice Statements Appendix B PSpice Devices and Statements Appendix C Installing the Software Manuals and Tutorials Appendix D PSpice Devices and Model Parameters Appendix E Sample Standard Device Library Index

Circuit Analysis Allan Robbins,Wilhelm C. Miller,2000 The mathematical foundation and the practical application of circuit theory in this highly readable book will prove invaluable to students enrolled in electronics engineeringtechnology curriculum and professionals alike This one of a kind text provides comprehensive coverage of circuit analysis topics including fundamentals of DC and AC circuits methods of analysis capacitance inductance magnetism simple transients and computer methods Hundreds of step by step examples lead the user through the critical thinking processes required to solve problems Two popular computer simulation packages OrCAD PSpice Version 9 and Electronics Workbench are integrated throughout the book to support what if situations With the Online Companion users can access a web site that contains RealAudio sound clips that present more in depth discussions of the most difficult topics covered in each chapter

A Brief Introduction to Circuit Analysis J. David Irwin,2003 A concise introduction to circuit analysis designed to meet the needs of faculty who want to teach this material in a one semester course Chapters have been carefully selected from Irwin Basic Engineering Circuit Analysis 7E

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