

LAB 5: Computer Simulation of RLC Circuit Response using PSpice

PURPOSE

To use a computer simulation program (PSpice) to investigate the response of an RLC series circuit to:

- (a) a sinusoidal excitation.
- (b) a step excitation under conditions of underdamping, critical damping and overdamping.

EQUIPMENT

- (i) Student computer network station.
- (ii) OrCad Capture PSpice circuit simulation software.

This lab is to be done individually unless equipment shortages require otherwise.

BACKGROUND

Part 1. Frequency Domain Response of RLC Circuit to Sinusoidal Excitation

Figure 1 shows a series RLC circuit driven by an ideal voltage source, V_s .

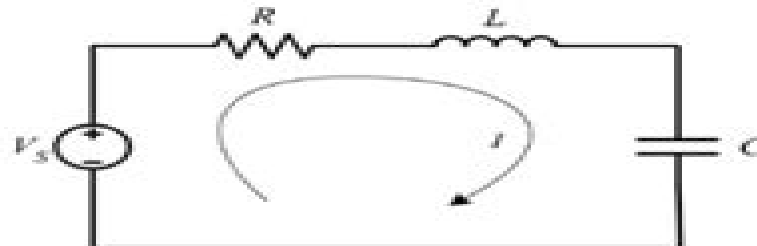


Figure 1. Series RLC circuit.

The loop current I is given by:

$$I = \frac{V_s}{R + j\omega L + \frac{1}{j\omega C}} = \frac{V_s}{R + jX} \quad (1)$$

where:

$$X = \omega L - \frac{1}{\omega C} \quad (2)$$

The magnitude of the current phasor is:

Electrical Simulation Pspice Lab Manual

Muhammad H. Rashid



Electrical Simulation Pspice Lab Manual:

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

ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments It will also be useful to the undergraduate students of electrical science branches of engineering and applied science This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop Further it covers experiments for basic electronics lab electronic circuits lab and digital electronics lab A separate chapter is devoted to the simulation of electronics experiments using PSpice Each experiment has aim components and equipment required theory circuit diagram tables graphs alternate circuits answered questions and troubleshooting techniques Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students The purpose of the experiments described here is to acquaint the students with Analog and digital devices Design of circuits Instruments and procedures for electronic test and measurement

Electronic Systems Maintenance Handbook Jerry C. Whitaker, 2017-12-19 The days of troubleshooting a piece of gear armed only with a scope voltmeter and a general idea of how the hardware works are gone forever As technology continues to drive equipment design forward maintenance difficulties will continue to increase and those responsible for maintaining

this equipment will continue to struggle to keep up The Electronic Systems Maintenance Handbook Second Edition establishes a foundation for servicing operating and optimizing audio video computer and RF systems Beginning with an overview of reliability principles and properties a team of top experts describes the steps essential to ensuring high reliability and minimum downtime They examine heat management issues grounding systems and all aspects of system test and measurement They even explore disaster planning and provide guidelines for keeping a facility running under extreme circumstances Today more than ever the reliability of a system can have a direct and immediate impact on the profitability of an operation Advocating a carefully planned systematic maintenance program the richly illustrated Electronic Systems Maintenance Handbook helps engineers and technicians meet the challenges inherent in modern electronic equipment and ensure top quality performance from each piece of hardware

The Electronics Handbook Jerry C. Whitaker,1996-12-23

The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include

OrCAD PSpice for Windows Roy W. Goody,2001

This book takes readers from a simple DC circuit with its customary current and voltage measurements through a damped resonant circuit requiring rise time characteristics to a complex digital circuit that demands sophisticated timing and frequency measurements It provides students with a sophisticated comprehensive powerful user friendly learning tool The continuation of simulation studies includes more advanced topics such as operational amplifiers digital and filter design Comfortable yet challenging multi level activities examples and exercises show learners how to use the program to draw circuits directly on the screen analyze the circuit in seconds using PSpice and display the results using sophisticated techniques that go far beyond those possible with conventional instruments A wide range of electronic theory compliments all the major PSpice techniques and processes For electrical engineers involved with devices and circuits operational amplifiers and digital analog and filter design

Electrical Engineering Uncovered Richard M. White,Roger W. Doering,2001

Electrical Engineering Uncovered gives the reader an introduction to electrical engineering and a sense of what professional engineers do The book uses familiar examples like water flowing through a garden hose to illustrate the electronics discussed and ease the reader into the subject

KEY TOPICS Topics include up to date Internet information new material on micro electro mechanical systems MEMS digital electronics computer architecture communications and digital signal processing Short one page templates are included for the different kinds of technical writing an engineer would typically produce

MARKET As a reference for electrical engineers

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 EVALUATE 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

Experiments in Basic Circuits
David M. Buchla, 2007 *A Practical Guide to Analog Behavioral Modeling for IC System Design* Paul A. Duran, 2012-11-14 A Practical Guide to Analog Behavioral Modeling for IC System Design presents a methodology for abstracting an IC system so that the designer can gain a macroscopic view of how sub systems interact as well as verify system functionality in various applications before committing to a design This will prevent problems that may be caused late in the design cycle by incompatibilities between the individual blocks that comprise the overall system This book will focus on the techniques of modelling IC systems through analog behavioral modeling and simulation It will investigate a practical approach by which designers can put together these systems to analyze topological and architectural issues to optimize IC system performance Highlights Discussions on modeling and simulation from SPICE to behavioral simulators Comparison of various hardware description languages and a discussion on the effects of language standardization Explanation on how to reduce time to market by decreasing design cycle time through modeling and simulation Contains more than 25 building block examples that can be used to construct mixed signal IC system models Analysis of 4 different IC systems using various levels of model detail This book is intended for the practicing engineer who would like to gain practical knowledge in applications of analog behavioral modelling for IC system design

Semiconductor Device Modeling with Spice Giuseppe Massabrio, Paolo Antognetti, 1998-12-22 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product

IEEE Circuits & Devices, 2006

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 engineering technology 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

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 *MELECON '98, 9th Mediterranean Electrotechnical Conference* ,1998 Proceedings of MELECON ,1998 Introductory Circuit Analysis Robert L. Boylestad, 1994 *Subject Guide to Books in Print* ,1997 **Introduction to PSpice Manual for Electric Circuits, Using OrCAD Release 9.2** James William Nilsson, Susan A. Riedel, 2002 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE **VLSI Systems Design** ,1987 Archives of Electrical Engineering ,2003

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