

M.Tech II (PE)

POWER ELECTRONICS CIRCUITS LAB(21054105) MANUAL

1)

% Single-phase fully controlled converter with R and RL loads

% Parameters

R = 10; % Resistance (ohms)

L = 0.1; % Inductance (H)

V_dc = 100; % DC voltage (V)

f = 50; % Frequency (Hz)

T = 1/f; % Period (s)

alpha = pi/6; % Firing angle (radians)

t = 0:0.0001:T; % Time vector

% Input voltage

v_dc = V_dc * sqrt(2) * sin(2 * pi * f * t);

% Controlled rectifier output voltage

v_ac = V_dc * sqrt(2) * sin(2 * pi * f * t - alpha) .* (t <= alpha / (2 * pi * f));

% Load current for R load

i_r = v_ac / R;

% Load current for RL load

i_rl = (V_dc / L) * (1 - exp(-R * t / L)) .* (t <= alpha / (2 * pi * f));

% Plotting

figure;

Power Electronic Circuits Lab Manual

Lingjun Ying



Power Electronic Circuits Lab Manual:

Laboratory Manual for Pulse-Width Modulated DC-DC Power Converters Marian K. Kazimierczuk, Agasthya Ayachit, 2015-10-26 Designed to complement a range of power electronics study resources this unique lab manual helps students to gain a deep understanding of the operation modeling analysis design and performance of pulse width modulated PWM DC DC power converters Exercises focus on three essential areas of power electronics open loop power stages small signal modeling design of feedback loops and PWM DC DC converter control schemes and semiconductor devices such as silicon silicon carbide and gallium nitride Meeting the standards required by industrial employers the lab manual combines programming language with a simulation tool designed for proficiency in the theoretical and practical concepts Students and instructors can choose from an extensive list of topics involving simulations on MATLAB SABER or SPICE based platforms enabling readers to gain the most out of the prelab inlab and postlab activities The laboratory exercises have been taught and continuously improved for over 25 years by Marian K Kazimierczuk thanks to constructive student feedback and valuable suggestions on possible workroom improvements This up to date and informative teaching material is now available for the benefit of a wide audience Key features Includes complete designs to give students a quick overview of the converters their characteristics and fundamental analysis of operation Compatible with any programming tool MATLAB Mathematica or Maple and any circuit simulation tool PSpice LTSpice Synopsys SABER PLECS etc Quick design section enables students and instructors to verify their design methodology for instant simulations Presents lab exercises based on the most recent advancements in power electronics including multiple output power converters modeling current and voltage mode control schemes and power semiconductor devices Provides comprehensive appendices to aid basic understanding of the fundamental circuits programming and simulation tools Contains a quick component selection list of power MOSFETs and diodes together with their ratings important specifications and Spice models [ELECTRONICS LAB MANUAL \(VOLUME 2\)](#)

NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students KEY FEATURES Contains aim components and equipment required theory circuit diagram pin

outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices TARGET AUDIENCE B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering Power Electronics: Theory and Practicals Lalit Chandra Saikia,2025-06-01 *Fundamentals of Power Electronics* Soumitra Kumar Mandal,2025-06-01

Subject Guide to Books in Print ,1993 Proceedings American Society for Engineering Education. Conference,1993

Engineering Practices Lab Manual - 5Th E T Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be used and exercises to be practiced in the application of engineering practices in each field **Applied Physics II | AICTE Prescribed Textbook - English** Hussain Jeevakhan,2021-11-01 1 Applied Physic II With Lab Manual by Hussain Jeevakhan 789391505578 DIP126EN Applied Physics II is a basic science course in the first year of the Diploma program in Engineering Technology Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes based education OBE Book covers seven topics Wave motion Optics Electrostatics Current electricity Electromagnetism semiconductor physics and Modern physics Each topic and its subtopics are written from the perspective of a student s learning and in accord with the NEP 2020 guidelines Every unit comprises a set of activities and exercise at the end to assist the student s learning Some salient features of the book l Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes l Book Provides relevant interesting facts QR Code for E resources and use of ICT and suggested micro projects activities in each unit l Content presented in book in chronological way l Figures tables and equations are given to improve clarity of the topics l Solved examples are given with systematic steps l MCQ s short and long answer questions and unsolved problems of understanding and above levels Bloom s Taxonomy are given for learning reinforcement of students and as per OBE Digital Electronics and Microprocessors Lab Manual Mr. Rohit Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

MSP430 Microcontroller Lab Manual James Kretzschmar,Jeffrey Anderson,Steven F. Barrett,2023-05-23 This book is a practical reference for using Texas Instruments MSP430 microcontrollers It provides a series of hands on laboratory exercises The labs may be completed in a traditional laboratory setting or at home using the Digilent Analog Discovery 2 Test Instrument This book can be used as a reference for planning future projects using the MSP430 microcontroller The authors focus on applications of the main peripheral modules available on the MSP430 microcontroller CPU clock Basic Input Output Timer Analog to Digital Converter They also provide examples of how to develop Pulse Width Modulation signals and how to

use Interrupts **Power Electronics Design Testing Simu** K. R. VARMAH,2017 IEEE Transactions on Circuits and Systems ,2006 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 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

Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English Susan S. Mathew, Saji T. Chacko, 2021-11-01 Fundamentals of Electrical Electronics Engineering is a compulsory paper for the first year Diploma course in Engineering Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome based education Books covers six topics Overview of Electronics Components and Signals Overview of Analog Circuits Overview of Digital Electronics Electric and magnetic Circuits A C Circuits and Transformer and Machines Each topic is written in easy and lucid manner A set of exercises at the end of each unit to test the student's comprehension is provided Some salient features of the book | Content of the book aligned with the mapping of Course Outcomes Programs Outcomes and Unit Outcomes | The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity | Book provides lots of vital facts concepts principles and other interesting information | QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided | Student and teacher centric course materials included in book in balanced manner | Figures tables equations and comparative charts are inserted to improve clarity of the topics | Objective questions and subjective questions are given for practices of students at the end of each unit Solved and unsolved problems including numerical examples are solved with systematic steps

Recording for the Blind & Dyslexic, ... Catalog of Books, 1996

Control of Electric Machines Irving L. Kosow, 1973 Electric Machinery and Transformers Irving L. Kosow, 1972

Tech Directions, 1995 **Books in Print**, 1994

This book delves into Power Electronic Circuits Lab Manual. Power Electronic Circuits Lab Manual is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Power Electronic Circuits Lab Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Power Electronic Circuits Lab Manual
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 - Chapter 4: Power Electronic Circuits Lab Manual in Specific Contexts
 - Chapter 5: Conclusion
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