



## Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Power Electronics

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

### Module-1

1. a. List the major types of power electronic devices with their symbols. Draw their VI characteristics and give applications of each. (10 Marks)
- b. Explain the peripheral affects caused by power electronic converters and remedies for them. (05 Marks)
- c. Explain the reverse recovery characteristics of diode. (05 Marks)

### OR

2. a. With circuit diagram and waveform explain bridge rectifier. Also obtain expression for average and RMS output voltage of fullwave rectifier. (08 Marks)
- b. Explain power electronic converters with an example (08 Marks)
- c. The reverse recovery time of a diode is  $t_{rr} = 3\mu s$  and the rate of fall of the diode current is  $\frac{di}{dt} = 30A/\mu sec$ . Determine : (04 Marks)
  - i) the storage charge  $Q_{RR}$  and
  - ii) the peak reverse current  $I_{RR}$ .

### Module-2

3. a. Explain input and output characteristics of n-channel E-MOSFET. (06 Marks)
- b. What is the need for isolation of gate and base drive circuits? Also explain base drive circuit using pulse transformer. (06 Marks)
- c. For the transistor switch given  $V_{BB} = 10V$ ,  $R_B = 0.75\Omega$ ,  $R_C = 11\Omega$ ,  $V_{BE} = 1.5V$ ,  $V_{CEsat} = 1V$  and  $V_{CC} = 200$  volts. (08 Marks)
  - i) Calculate forced beta,  $B_F$  of transistor
  - ii) If specified ' $\beta$ ' is in the range 8 to 40, calculate the minimum overdrive factor
  - iii) Obtain the power loss  $P_T$  of the transistor.

### OR

4. a. Explain switching characteristics of MOSFET. Also draw switching model. (06 Marks)
- b. Discuss low proportional base drive control and anti-saturation control improves the switching performance of a BJT. (08 Marks)
- c. Give the comparison between BJT Vs MOSFET and MOSFET Vs IGBT. (06 Marks)

### Module-3

5. a. Obtain the expression for anode current of SCR using two transistor model and explain its working. (08 Marks)
- b. With neat circuit diagram and waveform explain UJT triggering circuit. (06 Marks)
- c. How many SCR are required in a series string to withstand a DC voltage of 3.5kV in steady state, if the SCRs have steady state voltage rating of 1kV and steady state derating factor of 30%? Assume maximum difference in leakage current of SCR to be 10mA, calculate the value of voltage sharing resistance to be used. Draw the circuit showing the SCR and the voltage sharing resistance. (06 Marks)

# Power Electronics Vtu Question Papers

**Albert Kloss**



## **Power Electronics Vtu Question Papers:**

Technology Road Mapping for Quantum Computing and Engineering Mishra, Brojo Kishore, 2022-03-25 Quantum computing is radically different from the conventional approach of transforming bit strings from one set of zeros and ones to another. With quantum computing, everything changes. The physics used to understand bits of information and the devices that manipulate them are vastly different. Quantum engineering is a revolutionary approach to quantum technology. Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts, engineering technologies, operations, and applications from the basics to future advancements. Covering topics such as machine learning, quantum software, technology, and technology road mapping, this book is an excellent resource for data scientists, engineers, students, and professors of higher education, computer scientists, researchers, and academicians.

**National Union Catalog**, 1979 Includes entries for maps and atlases. A Basic Guide to Power Electronics Albert Kloss, 1984 Good. No Highlights. No Markup. All pages are intact. Slight Shelfwear. May have the corners slightly dented. May have slight color changes. Slightly damaged spine. Power Electronics S. Sivanagaraju, Balasubba M. Reddy, A. Mallikarjuna Prasad, 2010-05 Designed for undergraduate students of electrical engineering, this book offers a thorough understanding of the basic principles and techniques of power electronics as well as its applications. It will also be useful to postgraduate students and practising engineers involved in the design and applications of power electronics. Divided into nine chapters, the book covers the family of thyristors, SCR, including its characteristics, operation, turn on, and turn off procedures. It also discusses power transistors, MOSFET, IGBT, phase-controlled rectifiers, AC voltage controllers, and cycloconverters, choppers, inverters, and other devices. The well-illustrated diagrams, worked-out examples, and the chapter-end questions help students to absorb concepts and thus reinforce the understanding of the subject. *Power Electronics Basics* Yuriy Rozanov, Sergey E. Ryvkin, Evgeny Chaplygin, Pavel Voronin, 2015-04-23 *Power Electronics Basics: Operating Principles, Design Formulas, and Applications* provides fundamental knowledge for the analysis and design of modern power electronic devices. This concise and user-friendly resource explains the basic concepts and most important terms of power electronics. Describes the power assemblies, control, and passive components. **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 Power Electronics ,**

**Fundamentals of Power Electronics** S. Rama Reddy,2000-09-14 Written in plain language Fundamentals of Power Electronics sets forth the basic principles of power electronics Starting with the various types of devices protection and series and parallel operation of silicon controlled rectifiers it details all the aspects of power electronics essential to building a strong foundation for the further study and practice of industrial or power electronics engineering The author devotes considerable attention to a wide variety of applications from AC and DC motors heating and welding to HVDC transmission and thyristor controlled electrical drives Fundamentals of Power Electronics is filled with diagrams that clarify the concepts presented Each chapter includes sections containing numerous examples and short questions with answers An appendix furnishes a series of power electronics experiments that explore SCR characteristics UJT firing circuits voltage and current commutation triac characteristics and the RC triggering scheme of SCR      **Power Electronics, Problems Manual F.**

Czaki,I. Herman,I. Ipsits,1979-01-01      Technician Power Electronics Systems Manoj Dole,2018-12-13 Technician Power Electronics Systems is a simple e Book for ITI Engineering Course Technician Power Electronics Systems First Second Year Sem 1 2 3 4 Revised Syllabus in 2018 It contains objective questions with underlined bold correct answers MCQ covering all topics including all about safety and environment use of fire extinguisher trade tools its standardization familiarize with basics of electricity test the cable and measure the electrical parameter maintenance of batteries active electronic components soldering and de soldering of various types of electrical and electronic components on through hole PCBs computer system install OS Practice with MS office Use the internet browse create mail IDs download desired data from internet using search engine amplifier oscillator and wave shaping circuits power electronic component power control circuits Identify and test opto electronic devices SMD Soldering and De soldering of discrete SMD components digital ICs types of LEDs LED displays and interface 8051 microcontroller three phase rectifier chopper SMPS inverters and UPS various electro pneumatic circuits ICs transformer and other discrete components installing a solar panel process sensor identify wire test various sensors speed control of DC machine and single phase and 3 phase AC machines Install configure

and check the performance of AC and DC drive to control the speed control of servo motor and lots more **Practical**

**Power Electronics** Mustafa Husain, 2015-12-17 Yes this is another book on power electronics but it is different Concise simple and animated Covering various basic principles with applications from domestic to industrial the learner will have the feeling of this field Basic principles are explained without the use of complex mathematics and further understanding can be sought via dedicated computer animations Consolidated with several experiments it is very helpful for beginners and useful as a first practical course on power electronics for technical colleges and corporate in house training *Power Electronics; Problems Manual* Frigyes Csáki, 1975 *Power Electronics Fast Review Notes* Stefanos Manias, 2018-09-20 The use of fast review notes for a power electronics course by a student can provide the following opportunities 1 Makes understand clearly the specific course material 2 The waveforms and equations of a specific power converter are presented in a table form within 3 to 6 pages 3 Since all the material of a power electronics course is written in a concentrated table form allows the student to grasp quite easy the material of the specific course 4 The fast review notes are easy accessible material in hard copy or ebook form helping the students to study them anytime and anywhere they want and 5 Provides the student to select out of 150 pages the necessary material that needs to review very fast before going to examination **Power Electronics**, 1988 *Power Electronics: Circuits, Devices, and Application (for Anna University)* Muhammad H. Rashid, 2011 **Power Electronics Tutorial Exercises** Stefanos Manias, 2018-04-12 This textbook is providing the students and professors with a variety of properly selected step by step worked examples in order to assist them of understanding a power electronics course Each chapter of this textbook consists of a number of worked examples which extend the reader's experience in problem solving and to help develop a deeper understanding of the subject Chapter 1 is a unique Chapter because presents in 30 Tables the most wanted information that a student and a professor needs in order to analyze different power electronics problems This information includes key waveforms expressions rms and dc values of different well known waveforms and their respective frequency spectrum i.e Fourier analysis The worked examples outlined in this textbook are carefully selected to coincide with the didactic material of an introductory course in power electronics The step by step examples are not examples that are used only for plugging numbers but are continuation of the power electronics theory with waveforms relations and results for specific industrial application so that the reader to understand the specific theory and at the same time to create the appropriate feedback remarks Moreover in the appendix of this textbook 100 multiple choice questions are presented with their respective answers The theoretical results obtained in the worked examples are verified by the respective simulation ones making the results more rigid and acceptable by the reader There are 50 simulation results out of 180 worked examples that strengthen the understanding of the examples The most of the worked examples are oriented towards applications to Uninterruptible Power Supply UPS systems switched mode power supplies renewable energy sources Static VAR compensators power semiconductor devices passive and active filtering and motor drive systems This textbook

which is consisted of 200 worked examples and 100 multiple choice questions has all the necessary material for coursework assignments and final exam preparation The 200 worked examples presented in this textbook are divided into the following 12 chapters Chapter 1 Introduction to power electronics technology with 27 tables of useful information and 10 worked examples Chapter 2 Circuits with diodes and switches with 16 worked examples Chapter 3 Single phase half wave thyristor rectifiers with 15 worked examples Chapter 4 Diode rectifiers with 25 worked examples Chapter 5 Thyristor rectifiers with 31 worked examples Chapter 6 Inverters with 30 worked examples Chapter 7 Dc dc converters with 16 worked examples Chapter 8 Ac voltage controllers and static VAR compensators with 10 worked examples Chapter 9 PWM rectifiers with 10 worked examples Chapter 10 Power semiconductor devices with 14 worked examples Chapter 11 Passive and Active filters with 12 worked examples Chapter 12 Introduction to motor drive systems with 17 worked examples APPENDIX 100 multiple choice questions with their respective answers The majority of the 200 worked examples in this textbook follow a logical sequence which is an attempt to demonstrate the step by step process of a power electronics converter design Indeed the purpose of this textbook is to present a more exciting type of questions and show how the theory in power electronics is related to real world problems

**Power Electronics** Murthy,      **Basics of Power Electronics** Lab-Volt (Québec) Ltd, Roussy,  
Normand, 1991      **Fundamentals Of Power Electronics**, 2E Erickson, 2005-01-01      **Advanced Power Electronics**  
Ramnath, 2010

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