

POWER ELECTRONICS LAB

SUB CODE: 06ECL77

1. Static characteristics of SCR and DIAC.
2. Static characteristics of MOSFET and IGBT.
3. Controlled HWR and FWR using RC Triggering circuit
4. SCR turn-off circuits using (i) LC circuit (ii) Auxiliary Commutation.
5. UJT firing circuit for HWR and FWR circuits.
6. Generation of firing signals for Thyristors/Triacs using digital Circuit/ Microprocessor.
7. AC voltage controller using Triac – Diac combination.
8. Single phase fully controlled bridge converter FWR with R and RL loads.
9. Voltage (Impulse) commutated chopper – both constant frequency and variable frequency operations.
10. Speed control of a separately excited DC motor.
11. Speed control of universal motor.
12. Speed control of stepper motor.
13. Parallel/ Series Inverters.

Power Electronics Vtu Lab Manual

Albert Kloss



Power Electronics Vtu Lab Manual:

Power Electronics Design Testing Simu K. R. VARMAH, 2017 **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 *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 **Basics of Power Electronics** Lab-Volt (Québec) Ltd, Roussy, Normand, 1991 *Lab Manual for Electronics* Martin Feldman, 2001-11 The emphasis is first on understanding the characteristics of basic circuits including resistors capacitors diodes and bipolar and field effect transistors The readers then use this understanding to construct more complex circuits such as power supplies differential amplifiers tuned circuit amplifiers a transistor curve tracer and a digital voltmeter In addition readers are exposed to special topics of current interest such as the propagation and detection of signals through fiber optics the use of Van der Pauw patterns for precise linewidth measurements and high gain amplifiers based on active loads **KEY TOPICS** Chapter topics include Thevenin's Theorem Resistive Voltage Division Silicon Diodes Resistor Capacitor Circuits Half Wave Rectifiers DC Power Supplies Diode Applications Bipolar Transistors Field Effect Transistors Characterization of Op Amp Circuits Transistor Curve Tracer Introduction to PSPICE and AC Voltage Dividers Characterization and Design of Emitter and Source Followers Characterization and Design of an AC Variable Gain Amplifier Design of Test Circuits for BJT's and FET's and Design of FET Ring Oscillators Design and Characterization of Emitter Coupled Transistor Pairs Tuned Amplifier and Oscillator Design of AM Radio Frequency Transmitter and Receiver Design of Oscillators Using Op Amps Current Mirrors and

Active Loads Sheet Resistance Design of Analog Fiber Optic Transmission System Digital Voltmeter **Power Electronics,**
Problems Manual F. Czaki,I. Herman,I. Ipsits,1979-01-01 Thyristor Power Electronics ,2011 *Basic Electronics* Paul
B. Zbar,1976 **Laboratory Manual for Electronic Devices and Circuits** David A. Bell,2001 This lab manual
accompanies Electronic Devices and Circuits 4 e **Electricity-electronics Fundamentals** Paul B. Zbar,Joseph G.
Sloop,1977

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polity and practice in baptist churches

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