

# Scr Lab Manual

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### **Scr Lab Manual**

POWER ELECTRONICS LAB MANUAL Exp-1. Study of characteristics of an SCR AIM: To obtain the V-I characteristics of SCR (Silicon Controlled Rectifier). APPARATUS REQUIRED: SL. No, Apparatus, Range, Type, Quantity. 1. Two continuously variable DC Regulated Power Supplies of 0-1v and 0-30v. Specification of Regulated Power Supply :

### **POWER ELECTRONICS LAB MANUAL**

Power Electronics Lab 2010 F F A Silicon Controlled Rectifier (SCR) is a four layer, three terminals and three junction device, which is basically a rectifier with a control terminal called Gate. Like

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diode, it is also a uni-directional device and forward conduction is from anode to cathode. Since

## **Power Electronics Lab**

SCR by switching off gate supply  $V_2$ . If SCR switches off just by removing gate terminal, and switches on by connecting gate supply, then the corresponding anode current  $I_A$  is the latching current ( $I_L$ ) for the SCR. FINDING HOLDING CURRENT: Ensure that the SCR is in the state of conduction. Switch off the gate supply permanently.

## **V-I CHARACTERISTICS OF SCR**

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Scr Lab Manual - securityseek.com Scr Lab Manual Scr Lab Manual An SCR is a three terminal, four layer latching device. The three terminals are anode, cathode and gate. When the anode is more positive w.r.t the cathode, junctions j1, j3 are forward biased and the junction j2 is reverse biased. Only a small leakage current flows through the ...

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Cardiovascular system disease - in study of persons older than 65 years, 11.2% had an elevated baseline serum creatinine (SCr) level (greater than or equal to 1.5 mg/dL in men and 1.3 mg/dL in women). Persons with an elevated SCr level had a higher: Overall mortality: 76.7 vs 29.5/1,000 years; Cardiovascular mortality: 35.8 vs 13/1,000 years

### **Lab Test: Creatinine (Serum) Level**

Experiment No: 1 Experiment Name: Study of V- I Characteristics of SCR. Aim: To study the V-I characteristics of SCR. Apparatus Required: 1. NV6530 SCR Characteristic Trainer 2. 2mm Patch

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cords. Circuit Diagram: Model Graph: Theory: An SCR is a device which can be turned on through the gate pulse and turned off using power circuit i.e., turn on is controlled but turn off is uncontrolled in an SCR.

### **Experiment No 1 Experiment Name**

Author: Madhuri Created Date: 10/20/2017 3:46:04 PM

### **Gokaraju Rangaraju Institute of Engineering and Technology**

LABORATORY MANUAL Subject Code : A60291 Regulations : R15 - JNTUH Class ... 1 Study of characteristics of SCR, MOSFET & IGBT 6 - 15 2 Gate firing circuits for SCRs 16 - 19 3 Single phase A.C. Voltage controller with R and RL loads 20 - 23

### **POWER ELECTRONICS AND SIMULATION LABORATORY MANUAL**

Power Electronics Lab manual SSIT - 1 - CONTENTS Experiment No Page. No 1. SCR Characteristics 3 2. TRIAC Characteristics 9 3. MOSFET Characteristics 15 4. IGBT Characteristics 17 5. RC Triggering Circuit - HWR & FWR 19 6. UJT Triggering of SCR 23 7.

### **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

POWER ELECTRONICS LABORATORY LAB MANUAL ... A Silicon Controlled Rectifier (SCR) is a four layer, three terminals and three junction device, which is basically a rectifier with a control terminal called Gate. Like diode, it is also a uni-directional

### **DEPARTMENT OF ELECTRONICS AND COMMUNICATION & ENGINEERING ...**

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LABORATORY MANUAL POWER ELECTRONICS LAB ... LIST OF EXPERIMENT Power Electronics Lab. (EE-382) 1. SCR, BJT, MOSFET AND IGBT Characteristics. 2. Gate triggering circuits for SCR Using R, RC, UJT. 3. Single Phase Step down Cycloconverter with R and RL loads. 4. A.C. voltage ...

### **DEPARTMENT OF ELECTRICAL ENGINEERING**

Al Ameen Engineering College, Kulappully S7 Power Electronics Lab Department of Electrical And Electronics EXPERIMENT 3 UJT TRIGGER CIRCUIT FOR SCR AIM: To study the operation of UJT firing circuit for SCR. THEORY: A synchronized UJT triggered circuit using an UJT is shown in the figure. Diode Rectifier converts input ac to dc.

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