

4. (a) Describe the turn-on and turn-off process of GTO with two transistor model. (6)

(b) Explain the thyristor gate characteristics with gate firing circuit. (4)

(c) The trigger circuit of a thyristor has a source voltage of 15 V and the load line has a slope of 120 V/A. the minimum gate current to turn on the SCR is 25 mA. Compute (5)

(i) source resistance required for gate circuit

(ii) the trigger voltage and trigger current for an average gate power dissipation of 0.4 W.

4. (a) Derive the expression for maximum and minimum load current, duty cycle to limit the continuous conduction for type-A chopper with continuous conduction with suitable waveforms. (6)

(b) Discuss how the voltage across the commutating capacitor is reversed in a commutating circuit. (4)

(c) For the class-B commutating circuit, supply voltage is 230 V, load current I_L is 200 A, circuit turn-off time for main thyristor is 25 μ s and reversal current is limited to 150% of I_L . Determine the values of commutating components C and L. (5)

5. (a) Power electronics devices are now replacing the heavy and bulky conventional electromechanical devices. Briefly explain the following PE devices that replace which electromechanical devices : (8)

(i) AC voltage controller

(ii) Chopper

(iii) Rectifier

(iv) Inverter.

(b) Explain the symmetrical and asymmetrical configuration of single phase semi-converter with output current and voltage waveforms with RL load. (7)

6. (a) A 230 V, 50 Hz, one pulse SCR controller converter is triggered at a firing angle of 40° and the load current extinguishes at an angle of 210°. Find the circuit turn off time, average output voltage and the average load current for : (5+7)

(i) $R = 5 \Omega$ and $L = 2 \text{ mH}$

(ii) $R = 5$, $L = 2 \text{ mH}$ and $E = 110 \text{ V}$.

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