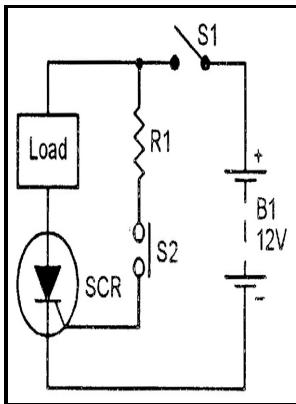


# Thyristor control of a D.C. series motor.

## -- Electrical Machines (Speed Control of D.C. Motors)



Description: -

-Thyristor control of a D.C. series motor.

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Landmarks of science

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## Chopper Control of DC Motors: Operation and Set

Question 7 Optically-isolated TRIACs are available for use as solid-state relays, suitable for replacing electromechanical relays in many AC power switching applications: Describe some of the advantages of using a solid-state relay for switching AC power instead of using an electromechanical relay as shown here: Also describe any disadvantages to using a solid-state relay, if they exist. The commutation circuitry is therefore highly complex and also influences the reliability of a thyristor application.

## DC Motor Drive Basics

The three terminals of the starting box are marked A, B and C. Special Control Strategy for Heat Pump system:double oil-return step, Multi Forbidden Frequency, System Pressure Balance, and so on. Armature Voltage Control Method for DC Shunt Motor Ward Leonard Method The Ward Leonard technique of DC motor speed control circuit is shown as follows: In the above picture, M is the main motor where its speed is to be regulated and G corresponds to an individually excited DC generator where this is driven by using a three-phase motor and it may be of either synchronous or induction motor.

## What is a thyristor? Types of thyristors and their uses

One such technique of voltage control method involves the use of a switchgear mechanism to provide a variable voltage to the armature, and the other one uses an AC motor-driven Generator to provide variable voltage to the armature the. The circuits use a variety of different methods to control the load current flow, but all require the gate to be fired and the anode cathode voltage to be removed to stop the current flow.

## Electrical Machines (Speed Control of D.C. Motors)

Before switching on the supply, R1 is increased by turning it in the counter-clockwise direction. The value of  $\alpha$  should be such that when thyristors are triggered the instantaneous value of ac input voltage  $V_{max} \sin \omega t$  is more than back emf  $E_b$ .

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It consists of three p-n junctions, as shown in Figure 8. The topology of a TCSC is shown in Fig. The trigger circuit is connected such that when

the SCR is triggered on, the trigger circuit is effectively short-circuited, owing to the very low forward voltage drop across a conducting SCR.

### **SCR Thyristor Phase Control**

The kinetic energy is partly dissipated in armature resistance  $R_a$  and partly stored in armature inductance  $L_a$ .

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