

Thyristor control of a D.C. series motor.

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



Description: -

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

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Landmarks of science

ThesesThyristor control of a D.C. series motor.

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Classes, Speed Control and Starting of DC motors

The waveforms for the source voltage V , armature terminal voltage v_a , armature current i_a , supply current i and freewheeling-diode current i_{DFW} are shown in Fig. Notes: It has been my experience that students require much practice with circuit analysis to become proficient. The face-plate box type starters used for starting shunt and compound motors of ordinary industrial capacity are of two kinds known as three- point and four-point starters respectively.

Series

Turn off begins when the current is reduced below the holding current.

Classes, Speed Control and Starting of DC motors

Let V represent the motor armature voltage and V_a the dc source voltage in Fig. Thyristor Control of DC Series Motors 3. In armature voltage control method or rheostatic control method for speed control in d.

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The magnitude of this voltage and hence, the motor speed can be changed by turning TON at different points in each half- cycle with the help of R. The trigger angle is controlled by the setting on RV 1. A thyristor can be switched on to the conducting state by applying a suitable signal to its gate terminal.

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

An isentropic flow is one which is a isothermal b adiabatic c adiabatic and irreversible d adiabatic and reversible. Therefore, distinguishing thyristors from diodes and transistors could be difficult.

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Only when S2 is closed and it triggers the gate by causing gate current to flow, will the SCR circuit turn on and current flow in the load. Thyratrons, ignitrons, mercury-arc rectifiers, magnetic amplifiers motor-generator sets have all been replaced by solid state circuits employing semiconductor diodes and thyristors.

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In high-power chopper circuits, however, thyristors are in common use.

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