
Electrical Drives And Control By U A Bakshi M V Bakshi

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while a variable d.c. voltage can be used to control the speed of a d. motor, the speed range may be limited due to the stability concerns as well as the cost and complexity of the control circuit. the speed range of the motor can be varied by using a variable d. voltage to change the armature current. in a motor running at full speed, the speed range can be increased by applying a higher armature voltage. 23 the increased armature voltage raises the armature current, and the armature current is limited by the maximum current of the armature coil. 21 if the armature voltage is increased beyond the maximum, the armature current will be limited by the minimum limit current of the armature coil. 21 when the motor speed reaches the minimum, the armature current freewheels. 22 if the motor speed is less than the minimum speed, the armature current is limited by the minimum limit current of the armature coil. 21 as the armature current increases, the armature voltage increases. the dc chopper is an electronic circuit that converts an ac source to a dc voltage. a dc chopper circuit is usually used for motor drive and power supply applications. the dc chopper consists of a thyristor as a switching device, a high-voltage power transformer, a rectifying diode, and an output capacitor. the thyristor functions as the power switch, and the rectifying diode is connected in series with the power transformer. the dc chopper converts the alternating current voltage from the power source to a constant dc voltage. the dc chopper circuit is used in three-phase induction motors, in which the voltage is stepped up to the desired voltage through the high voltage power transformer and then rectified by the thyristor. the output of the dc chopper is connected to the control terminal of a motor. the control terminal of the motor serves as a gate of the thyristor. in this way, the current flowing through the motor is controlled.

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one of the first successful d.c. drives was developed by henry m. leland, the inventor of the dc motor. leland's drive, the first d. motor, is a two-speed d. motor that runs at any of two speeds depending on whether the armature is connected to one or the other of two series circuits. 20 (this concept was later applied to the segmented motor.) 21 leland's d. motor is a double armature motor with the armature coils connected in series. the armature coils are connected to the two series circuits at different voltages. a key limitation of leland's drive is that the armature can only be connected to one of the two series circuits at a time. the segmented motor is a series-wound ac motor that has been widely used to control industrial conveyors and material handling devices. 24 its speed control is similar to that of the r.e.m. motor. in the segmented motor, the armature coils are segmented into sets of windings with the coils in each set connected in series. this allows the direction of rotation to be changed by changing the polarity of the set. the segmented motor can be controlled by an external controller that sends control pulses to the segmented motor through a control line. the control lines may be single or multiple wires, and may be controlled by an external controller or by a microprocessor in the drive. the present disclosure relates to a system for controlling the speed of an induction motor which is particularly well suited for controlling the operation of a machine tool. although the control system of the present disclosure is particularly well

suitable for controlling an induction motor, it is not limited to this application and can be used to control other industrial and motorized equipment, such as, for example, a paper making machine, an extrusion press, a saw mill, a router and so on. 5ec8ef588b

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