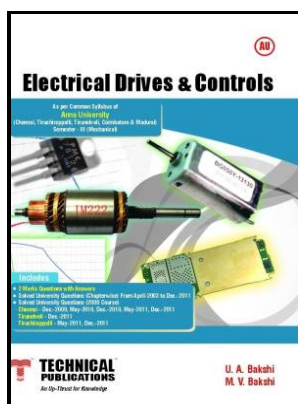


Control of electrical drives.

Springer-Verlag - Electric Drives



Description: -

-Control of electrical drives.

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Notes: Completely revised and enlarged edition of Regelung in der elektrischen Antriebstechnik, Stuttgart, 1974.

This edition was published in 1985



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Tags: #Control #of #Electrical #Drives

ELECTRICAL DRIVES AND CONTROL BY BAKSHI

Where noise may be a problem, the derivative term is not used.

ELECTRICAL DRIVES AND CONTROL BY BAKSHI

All must deliver a fixed output voltage and frequency to the load since the applications expect it and may depend on it. A separate current feedback loop may be required to provide automatic. In addition to the possibility of controlling drive amplifiers via digital and analog inputs and outputs, the use of a field bus even provides the possibility of entering and reading out the process data and parameters directly on the drive amplifier.

Control of electric drive

A motor designed for automotive use which must run in forward and reverse directions and which must provide regenerative braking in both directions needs a four quadrant controller.

Control of electric drive

As with large DC motors, speed control is normally accompanied by current control. In addition the machine may incorporate several simple protection devices. The connection between the rectifier and the inverter is known as the DC Link.

Control of electric drive

A voltage controller may be activated manually in an open loop system but for continuous voltage control, an inverter must be incorporated into a feedback loop in a closed loop system. With a low duty cycle when the transistor is off more than 50% of the time, the voltage which appears at the output is lower than the supply voltage and the circuit acts as a step down transformer. The converter interfaces the motor with the power source and provides the motor with adjustable voltage, current and frequency.

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