

Control of electrical drives.

Springer-Verlag - Control of Electrical Drives



Description: -

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

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ELECTRICAL DRIVES AND CONTROL BY BAKSHI

Because of the low cost of computing power, vector control is being used in more and more brushless motor applications. When the battery is fully charged, the battery's own management system disconnects it from the supply to prevent overcharging.

Control of Electrical Drives: Leonhard, Werner: 9783540418207: skynet2550.us.to: Books

This delay is called the loop delay. The corresponding mode of operation is called constant torque mode.

ELECTRICAL DRIVES AND CONTROL BY BAKSHI

Speed control in brushed DC motors used to be accomplished by varying the supply voltage using lossy rheostats to drop the voltage.

Lucas Nülle

The circuit below shows the principle of such an inverter designed for three phase applications.

Control of electric drive

With heavily loaded machines the power factor is normally reasonably high and the effect of voltage control is not significant. Voltage control alone may be insufficient to cater for wide, fast changing load conditions on the motor since the voltage controller may call for currents in excess of the motor's design limits. Electronic voltage control is also an essential part of many generator applications.

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When this happens the direction of the system response will not act so as to eliminate the error, instead it will reinforce the error.

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