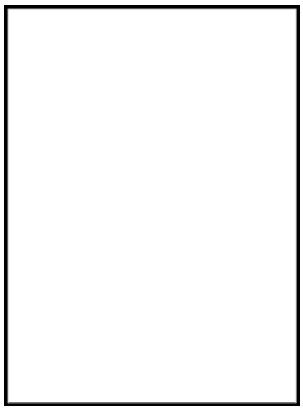
Microprocessor based speed control of a chopper-fed d.c. drive

- - US5545112A



Description: -
-Microprocessor based speed control of a chopper-fed d.c. drive
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Notes: Thesis(Ph.D.) - Loughborough University of Technology 1985.
This edition was published in 1985

Tags: #Chopper #Fed #DC #Motor #Drive

Stepper Motor Interfacing with 8051 Microcontroller

For example, using the transmission settings described above which produced the graph of FIG.

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The system clock is fed into an external divide by 4096 counter, where the output of this counter is connected to a high priority interrupt input on the TMU. After the target speed is reached, the software determines how close it was to reaching the target speed. Because each cycle of square wave has both a rising and a falling edge, and because the square wave from the optical tachometer has a roughly 50% duty cycle, the signal output from the frequency doubler 24 will have a frequency of twice that of the optical tachometer.

Speed control of dc motor using chopper

Thus, the treadmill belt speed can be described as: As can be seen, the speed change on the output pulley 7 per radial change of position of the belt along the input pulley is non-linear; the speed change when r 1 is large occurring at a faster rate than when r 1 is smaller. The treadmill belt is then stopped by the shutting off of the drive motor 2.

Power Electronics and Motor Drives

Once the actual speed is within a coasting range of the target speed, the duty cycle is reduced to zero, and the DC speed change motor stops.

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