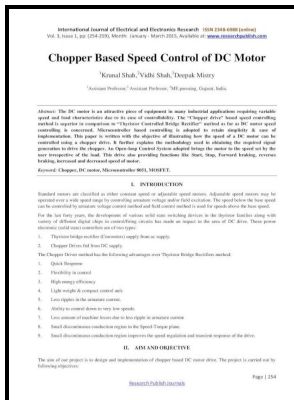


Microprocessor based speed control of a chopper-fed d.c. drive

- - Control of Armature and Field Current of a Chopper



Description: -

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Notes: Thesis(Ph.D.) - Loughborough University of Technology 1985.

This edition was published in 1985



Filesize: 38.24 MB

Tags: #CONTROL #OF #ARMATURE #AND #FIELD #CURRENT #OF #A #CHOPPER

US5545112A

Transmission belt 6 will move out from output shaft 9 until the tension in transmission belt 6 equals the tension applied by tension spring 13. The output of comparator U22-14 is an inverted signal of the same frequency as the optical tachometer frequency but with a sharp rise and fall time. This process continues until the current grade is within a coast factor of the target grade.

Power Electronics and Motor Drives

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Microprocessor

Another interrupt driven task is the serial communications receiver Serial Communications Interface SCI , FIG. As the two plates 5a,b are moved closer together by the speed-change motor 12, the transmission belt 6 is moved more towards the outer edge of the first pulley 4. New content covers converters, machine models and new control methods such as fuzzy logic and neural network control.

Stepper Motor Interfacing with 8051 Microcontroller

This first pulley 4 has two opposing conical plates 5a,b which form a V-shape for frictionally receiving a correspondingly shaped transmission belt 6. This output is a D. It can be step-up or step-down.

Speed control of dc motor using chopper

The third type is defined as background tasking. The result is a waveform at U6-6, shown in FIG. This results in a waveform signal at U6-6 with a frequency of about 6 kHz.

Stepper Motor Interfacing with 8051 Microcontroller

The resulting cycle has a period of about $162 \frac{1}{4}$ s which results in frequency of about 6 kHz. The first type is defined as real-time tasking.

Stepper Motor Interfacing with 8051 Microcontroller

The output of U12-7 is a signal whose voltage is directly proportional to the current passed through the speed change motor 12.

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Carefully structured to include both traditional topics for entry-level and more advanced applications for the experienced engineer, this reference sheds light on the rapidly growing field of power electronic operations.

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