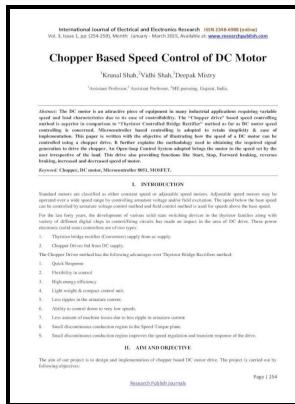


# Microprocessor based speed control of a chopper-fed d.c. drive

## -- Control of Armature and Field Current of a Chopper



### Description:-

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

## **British Library EThOS: Microprocessor based speed control of a chopper**

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.

## Related Books

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- [Metromania, or, The poet - a comedy by Alexis Piron, first presented at the Théâtre français in 1738](#)