

# Solid State Devices Speed Control of DC Motors

## 1. Basics of DC Motors Speed Control

Since  $E_a = V_t - I_a R_a$  and  $E_a = K_a \phi \omega_m$ . Therefore,  $\omega_m = \frac{V_t - I_a R_a}{K_a \phi}$ .

Practically, speed control of DC motors can be fulfilled using on of two methods:

- **Field Control:** by varying the field current. This can be achieved by varying the field voltage.
- **Voltage Control:** by varying the armature terminal voltage.

Up to the rated (base) speed (*the speed corresponding to rated operation condition, rated armature voltage, rated armature current, and rated field current*), the armature and the field currents are kept constant to maintain the torque at its rated value. The speed control within this range is carried out by varying the armature voltage. Beyond the base speed, the speed control the achieved by varying the field current. Within this range, the motor power is maintained constant and the torque is reduced with the increase in the rotational speed as shown in Fig. 1. For series motor, the speed control beyond the base speed is carried out using the armature current variation (since the armature and the field current are the same in series motors) as shown in Fig. 2.

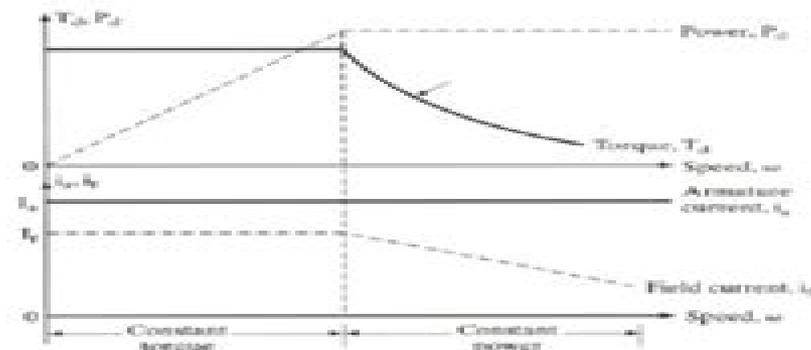


Fig. 1 Speed control characteristic of separately excited DC motors [1]

# Dc Motors Speed Control Eecs Pdf

**J Spring**



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