

## Theory Of Electrical Machines J B Gupta

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### Theory And Performance Of Electrical Machines J B Gupta

Electric Machines Theory. An electrical machine is just a device that can either transform mechanical energy into electrical energy or vice versa. When such a device is used to convert mechanical energy to electrical energy, it is called a generator and the other way around. When machines convert electrical energy into mechanical energy, it is termed a motor.

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**General Airgap Field Modulation Theory for Electrical Machines**

The d axis component of the armature MMF  $F_a$  is denoted by  $F_d$  and the q axis component by  $F_q$ . The component  $F_d$  is either magnetizing or demagnetizing. The component  $F_q$  results in a cross-magnetizing effect. If  $\psi$  is the angle between the armature current  $I_a$  and the excitation voltage  $E_f$  and  $F_a$  is the amplitude of the armature MMF, then. Salient Pole Synchronous Machine Two Reaction Theory

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