

DC GENERATOR

MUBARAK

- Kerala PSC Expert

DC Generator

Working principle

Construction

Working

Classification

Types of winding

Losses and efficiency

Armature reaction

Characteristics

Application

Working Principle

Faraday's law of electromagnetic induction

First law

When a conductor moves in a magnetic field it cuts magnetic lines of force, which induces an electromagnetic force (EMF) in the conductor.

Second Law

The magnitude of this induced EMF depends upon the rate of change of flux (magnetic line force) linkage with the conductor