

Describe the structure and operation of the mechanism of an electric motor that converts electrical energy into mechanical energy.

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MAT NO: 17/EE02/02/2020

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COURSE ENGG 221 Basic Electrical Engineering I

1) According to Newton, an object will only accelerate if there is a net or unbalanced force acting upon it. The presence of an unbalanced force will accelerate an object changing its speed, its direction, or both its speed and direction. Newton's second law of motion pertains to the behaviour of objects for which all existing forces are not balanced - the net force acting upon the object and the mass of the object. The acceleration of an object depends directly upon the net force acting on the object.

2) The field can be viewed as the combination of an electric field and magnetic field. The electric field is produced by stationary charges, and the magnetic field by moving charges (currents). These two are often described as the sources of the field. The way in which charges and currents interact with the electromagnetic field is described by Maxwell's equations and the



Lorentz force law. The force created by the electric field is much stronger than the force created by magnetic field.

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