

---

1. <b>alternating current</b>	electrical current that reverses direction periodically
2. <b>armature</b>	the laminated soft-iron core around which conducting coils are wrapped in an electrical motor or generator
3. <b>back emf</b>	the induced emf that opposes the applied emf in an electrical circuit such as a motor
4. <b>brushes</b>	conductors used to provide electrical contact to the moving parts of an electrical motor or generator, usually made of graphite
5. <b>DC electrical motors</b>	motors that convert electrical energy into mechanical energy, consisting of a rotor, field structure, commutator and brushes
6. <b>direct current</b>	a current that flows in one direction only
7. <b>eddy currents</b>	circular currents that are induced in a solid conductor (such as a metal sheet) when it is placed in a region of changing magnetic flux
8. <b>electrical field</b>	the region in which a charge experiences an electrical force
9. <b>electromagnetic induction</b>	the conversion of mechanical energy into electrical energy
10. <b>Faraday's law</b>	a law stating that the induced emf is proportional to the rate of change of magnetic flux through the circuit
11. <b>field structure</b>	the magnetic field of motors and generators; can be made from permanent magnets or electromagnets
12. <b>galvanometers</b>	sensitive current measuring devices that use the motor effect in their operation
13. <b>generators</b>	machines that convert electrical energy into mechanical energy, consisting of a rotor, field structure, slip rings and brushes
14. <b>induced current</b>	a type of current produced by the phenomenon of electromagnetic induction
15. <b>induction heater</b>	a type of modern cook-top that uses current-carrying coils placed under metal saucepans to induce eddy currents to heat metal pans for cooking
16. <b>Lenz's law</b>	a law stating that the direction of the induced emf is such that the current it produces creates a magnetic field opposing the change that produced this emf
17. <b>lines of force</b>	lines drawn to represent the direction and strength of electric, gravitational or magnetic fields

---