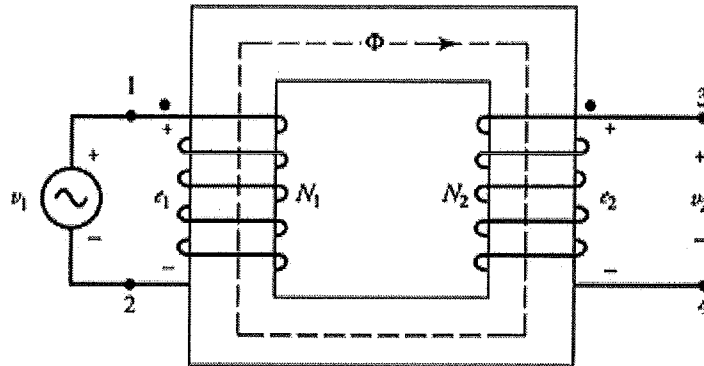
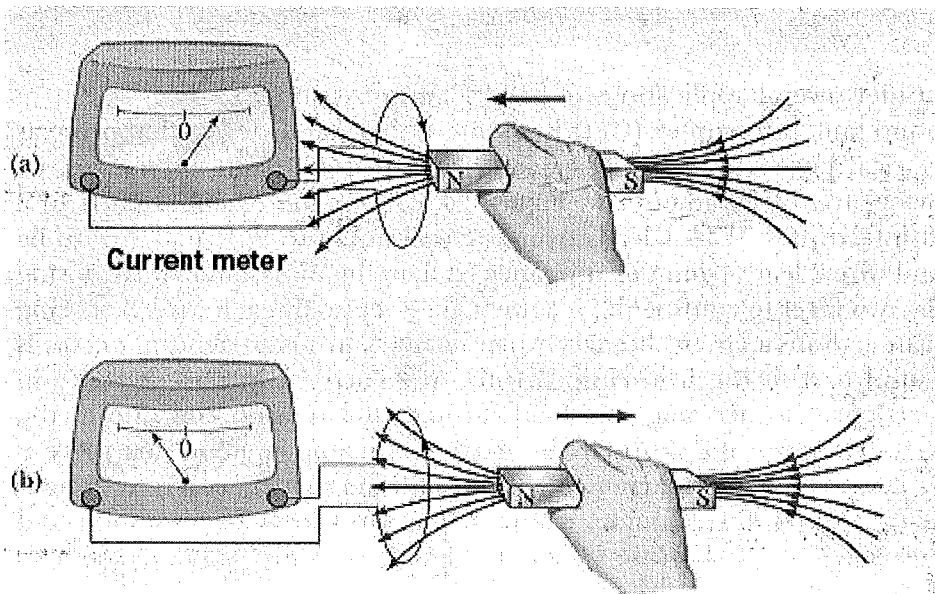


## Physics 12 Section 21-1 Induced EMF

1. Michael Faraday attempted to produce a sustained current in a secondary coil of wire while providing a current in a primary coil. The coils were connected by a common iron core.



2. Faraday found that the current could not be sustained; however, the Faraday noticed that the current in the secondary coil was produced only when the magnetic field changed.



3. A current is induced in the coil that produces an opposing magnetic field to the introduced magnetic field. The induced current produces a charge separation that results in an induced EMF.