

Moving Conductors

Electromagnetics

Static electric fields are independent from static magnetic fields. In dynamic electromagnetic fields changing electric field induces changing magnetic field and so on.

Induced EMF

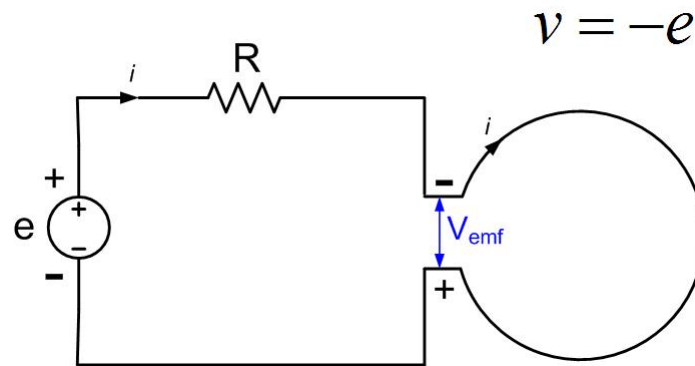


Figure 1: Induced voltage due to a loop of wire with AC current. Voltage induced is due to inductance of the loop of wire.

Motional EMF

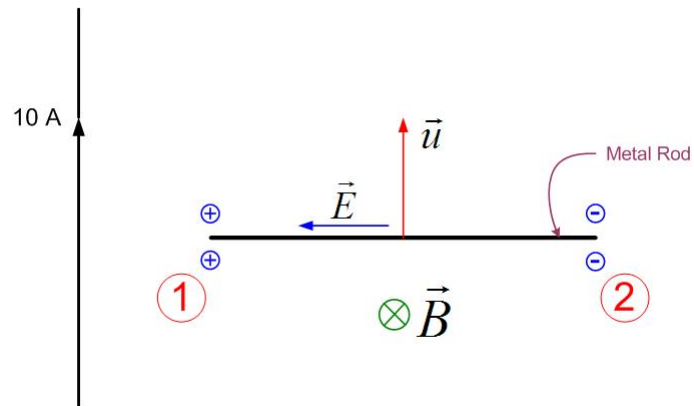


Figure 2: Example of induced motional electromotive force.