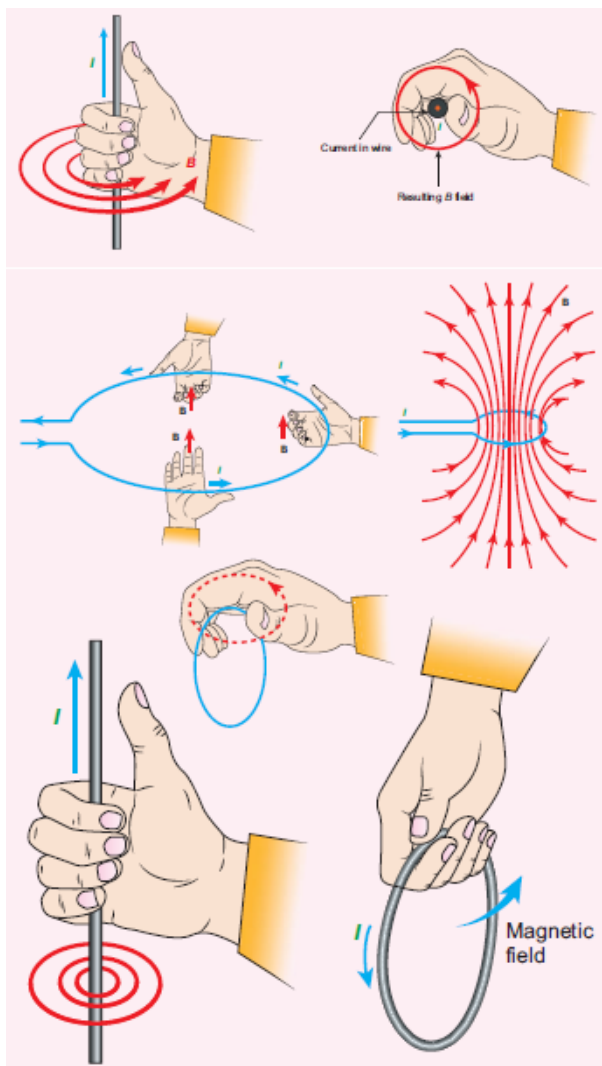


Right hand thumb rule and Maxwell's right hand cork screw rule

I. Right hand thumb rule

The right hand rule is a mnemonic to find the direction of magnetic field when the direction of current in a conductor is known. **If we hold the current carrying conductor in our right hand such that the thumb points in the direction of current flow, then the fingers encircling the wire points in the direction of the magnetic field lines produced.** The following figure shows the right hand rule for current carrying straight conductor and circular coil.



II. Maxwell's right hand cork screw rule

This rule is used to determine the direction of the magnetic field. If we rotate a right-handed screw using a screw driver, then the direction of current is same as the direction in which screw advances and the direction of rotation of the screw gives the direction of the magnetic field.

