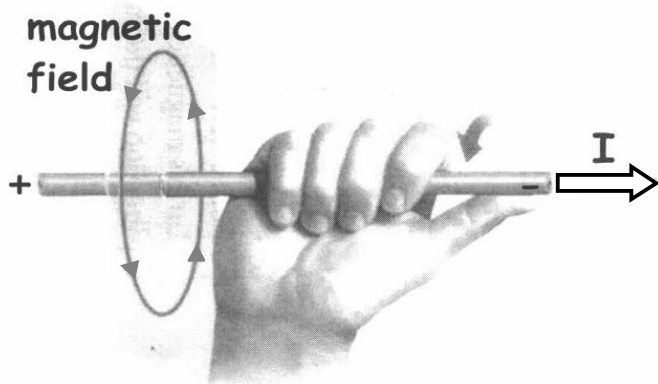


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An electric charge at rest →

Oersted discovered that -

Go to the lab now.



Right-hand rule #1:

If straight wire is grasped with right hand, with thumb pointing in direction of _____, fingers will curl in direction of _____.

Go to the lab report and use this rule to check #2 (pt A).

For a vertical conductor, \odot means the current flows upward or out of the page.

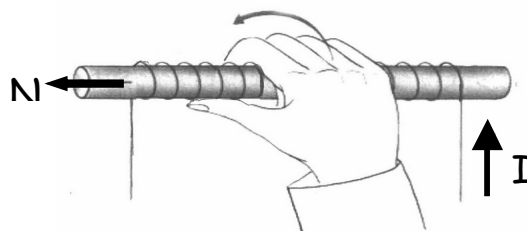
\otimes means the current flows downward or into the page.

Go to the lab now. Try to predict the results for Part B.

Solenoid -

Right-hand rule #2:

When a solenoid is grasped with the right hand, so that the fingers curl in the direction of the _____, the outstretched thumb will point toward the _____ pole of the magnetic field.



Electromagnet -

To make an electromagnet stronger, increase the number of _____ in the solenoid and increase the amount of _____ flowing through the wire.

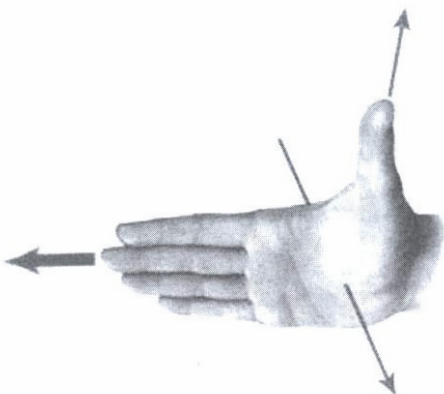
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Electromagnetic Induction -

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-

Factors Affecting Magnitude of Induced Current:

- 1.
- 2.
- 3.



Right-hand rule #3:

When the fingers point in the direction of the _____, and the thumb points in direction of the _____ of the wire, the palm pushes in the direction of the induced _____.

Electric Generator-

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Lenz's Law -

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Electric Motor -

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