

Question:



Two long parallel wires, oriented along the y -axis as shown, contain currents I and $2I$, flowing in opposite directions. Which of the following statements is true?

- a. The magnetic field due to I circles that wire in a counterclockwise direction.
- b. The magnetic force from wire $2I$ on wire I is twice as strong as the force on wire I from wire $2I$.
- c. The magnetic force between the two wires is proportional to the inverse square of the distance between them.
- d. The force on wire $2I$ is in the $+x$ direction.
- e. The force on wire $2I$ is in the $-z$ direction.

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Answer:

The correct answer is *d*. The magnetic field due to wire I circles that wire in a clockwise direction, as determined using the Right Hand Rule. This field is down (in the $-z$ direction) at the location of wire $2I$. By applying another Right Hand Rule, we can determine that the magnetic force on $2I$ due to this magnetic field is in the $+x$ direction.

Wire $2I$ has a force equal in magnitude on wire I . The magnetic force between the two wires can be determined as follows:

Magnitude of magnetic field due to I :

$$B = \frac{\mu_0 I}{2\pi r}, \text{ where } r \text{ is the distance between the wires}$$

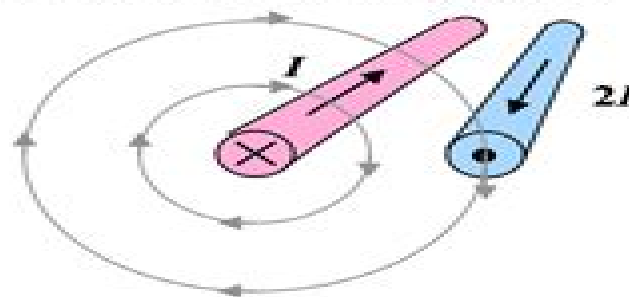
Force on wire $2I$ due to this field :

$$F_B = I\ell \times B$$

$$F_B = (2I)\ell \times \frac{\mu_0 I}{2\pi r}$$

The force per unit length of the wires, then, is:

$$\frac{F_B}{\ell} = \frac{\mu_0 2I^2}{2\pi r}$$



Real Problems Physics Magnetism

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