A current-carrying wire is pulled away from a conducting loop. As the wire moves, is there a current induced around the loop?

A: Yes, CW
B: Yes, CCW
C: No

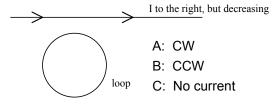
A conducting loop is pulled towards a wire carrying a steady current. As the loop moves, is there a current induced around the loop?

A: Yes, CW
B: Yes, CCW
C: No

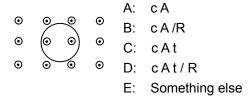
A loop of wire is near a long straight wire carrying a large current I, which is **decreasing with time**.

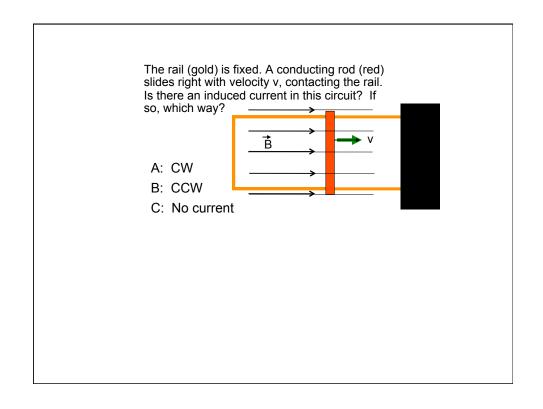
The loop and wire are in the same plane.

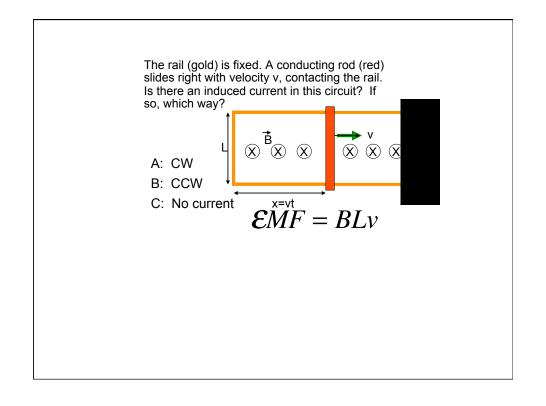
The current induced in the loop is



A loop of wire (area A, resistance R) sits in a uniform B field (shown) which is steadily increasing in magnitude: B = c t. (where c is a constant)
The |current| induced in the loop is...





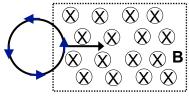


A conducting loop is moving from left to right into a region of steady, constant B-field. What current is induced in the loop as the loop is entering, partway into the field region?

A: CW B: CCW C: None

As the loop enters the B-field, the direction of the "induced magnetic force" **on the loop**

is ...



A: Left ← B: right→ C: into the page
D: out of the page E: No force

A conducting loop is halfway into a Bfield. Suppose B begins to increase
rapidly in strength. What happens to the
loop? It is pushed

A: ←
B: →
C: Down the page
D: Perp. to the page | × × × × |
E: No net force.

Two loop of wires (A and B) are placed near each other. A large STEADY current flows in A as shown. Which way is the induced current this produces in loop B?

A: Parallel current
B: Opposite current
C: No current is induced

Two loop of wires (A and B) are placed near each other. A steadily increasing current flows in A. Which way is the induced current this produces in loop B?

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Lincreasing with time

Two loop of wires (A and B) are placed near each other. A steadily increasing current flows in A.

How does ring B react?

A: the two loops repel
B: the two loops attract
C: depends on whether the current in loop A is CW or CCW
D: No net force.

I in A is increasing with time A

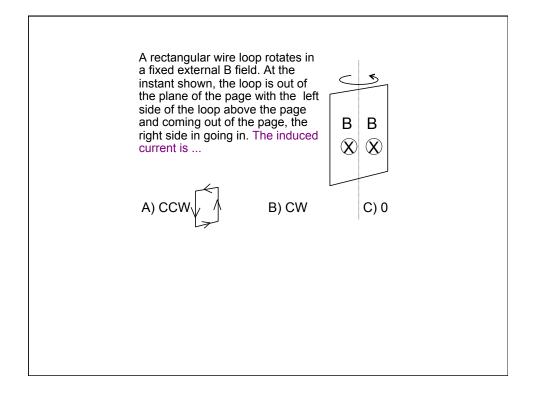
A magnet falls towards a conducting ring.
As it falls, a current is induced in the ring.
Does this induced current

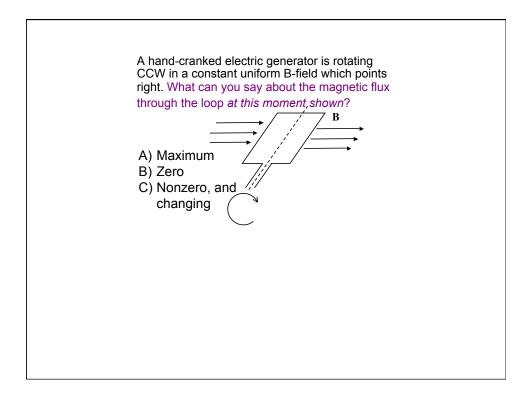
A: repel (hold up) the magnet
B: attract (pull down) the magnet
C: neither of the above/ depends...

front

A metal soda can has a wire loop around it. Suddenly a large increasing I runs in the wire loop. What happens?







What can you say about the current generated by the loop at this moment shown?

A) Maximum
B) Zero
C) Nonzero, and changing