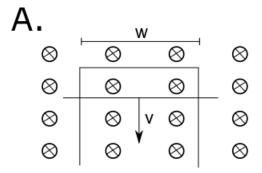
Coordination - Induced Current: Math, Graphs, and Concepts⁸

For each of the following cases:

- 1. Determine the direction of the induced current
- 2. Calculate the induced voltage
- 3. Draw the flux vs time graph
- 4. Draw the induced voltage vs time graph

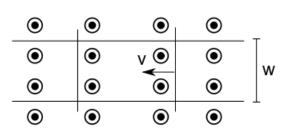


B = 1.2 T (into the page)

$$v = 0.5 \text{ m/s}$$

$$w = 0.25 \text{ m}$$

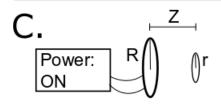




B = 1.2 T (out of the page)

$$v = 0.5 \text{ m/s}$$

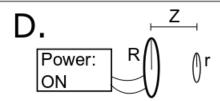
$$w = 0.4 \text{ m}$$



 $I_{power source} = .1 + 0.03*t$

$$R = 0.1 \, \text{m}$$

$$Z = 0.15 \text{ m}$$
 $r = 0.01 \text{ m}$



 $I_{power source} = 5 - 0.1*t$

$$R = 0.1 \text{ m}$$

$$Z = 0.15 \, \text{m}$$
 $r = 0.01 \, \text{m}$

⁸Written by Daryl McPadden for Fab Physics