

8. According to Faraday's Law of Electromagnetic Induction the induced voltage is equal to the rate of change of the magnetic flux.

$$\varepsilon = \Delta \phi / t$$

$$\varepsilon = (7.0 \text{ T m}^2 - 1.0 \text{ T m}^2) / 2.0 \text{ s}$$

$$\varepsilon = 3.0 \text{ T m}^2 / \text{s}$$