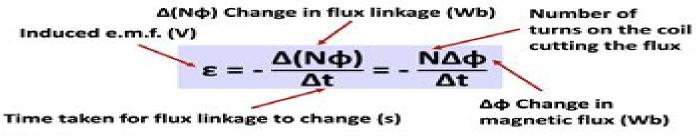
# Faraday's Law & Lenz's Law Worksheet Answers

1) State Faraday's law in words.

Faraday's Law states that the induced e.m.f. is directly proportional to the rate of change of flux linkage.

2) State Faraday's law mathematically. State the units of each quantity.



3) Define the weber.

The weber (Wb), is defined in terms of the electromotive force (e.m.f.) induced:

A change in flux linkage of one weber per second will induce an electromotive force of 1 volt in a loop of wire.

4) A coil has 115 turns and an area of 12 cm<sup>2</sup>. It is placed between two electromagnets. The magnetic flux density between the electromagnets is uniformly increased from 0.16 T to 1.7 T over the course of 0.42 seconds. Given that the plane of the coil is perpendicular to the magnetic field lines of the magnetic field, calculate the e.m.f. induced across the coil.

$$12 \text{ cm}^2 = 12 \times (10^{-2})^2 = \underline{12 \times 10^{-4} \text{ m}^2}$$

$$\varepsilon = -\frac{\Delta(N\varphi)}{\Delta t} \qquad [N\varphi] = BAN$$

$$\varepsilon = -\frac{\Delta(BAN)}{\Delta t} = -\frac{(1.7 - 0.16) \times 12 \times 10^{-4} \times 115}{0.42} = -0.51 \text{ V}$$

# **Faraday S Law Physics Worksheet With Answers**

**Tobias Bleicker** 

**Faraday S Law Physics Worksheet With Answers:** 

Whispering the Techniques of Language: An Emotional Quest through Faraday S Law Physics Worksheet With Answers

In a digitally-driven world where screens reign supreme and quick interaction drowns out the subtleties of language, the profound techniques and emotional subtleties hidden within words frequently get unheard. Yet, set within the pages of **Faraday S Law Physics Worksheet With Answers** a captivating fictional treasure sporting with fresh thoughts, lies a fantastic quest waiting to be undertaken. Written by a skilled wordsmith, that marvelous opus invites readers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within ab muscles material of every word. Within the psychological depths of the emotional review, we can embark upon a heartfelt exploration of the book is key styles, dissect their fascinating writing type, and yield to the effective resonance it evokes deep within the recesses of readers hearts.

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