

The induced EMF of moving conductor in magnetic field

A conductor held in magnetic field doesn't have induced current because no change in magnetic flux. However, when it starts moving magnetic flux increases significantly, then doesn't change and then slightly decreases until it stops.

$\mathcal{E} = Blv$

- \mathcal{E} induced EMF
- B magnetic field strength
- l length of conductor
- v velocity of conductor

Lenz's Law of Induction

Don't forget whether the coil is kept or changes. If it is a change in magnetic flux there is induced EMF. Faraday states if the flux through "N" number of loops of a coil changes from $\Phi_{initial}$ to Φ_{final} after induced EMF forms:

$$\mathcal{E} = -N \frac{\Delta \Phi}{\Delta t} = -N \frac{\Phi_{final} - \Phi_{initial}}{\Delta t}$$

If the ends of a coil are connected to circuit, then a current will flow:

$$I = \frac{\mathcal{E}}{R}$$

The number of turns increases linearly with distance:

- $N = 1 + 2x + 3x + 4x + 5x + \dots + nx$
- $N = \frac{1}{2}n(n+1)$

Induction

Don't confuse induced current and induced current action.

- When induced current action (magnet) is to the right without coil a coil or solenoid initially set or solenoid don't have induced current but because of induced current action this coil will generate induced current in coil or solenoid. The direction of the induced current will reverse direction of induced current action.

$\mathcal{E} = \mathcal{E}_1 + \mathcal{E}_2 + \mathcal{E}_3 + \mathcal{E}_4 + \mathcal{E}_5$

The direction of induced current by magnetic flux

- As a magnetic flux goes into a page. When $B \downarrow$ flux out of page (Decreases) When $B \downarrow$ flux into the page (Increases)
- As a magnetic flux goes out of page. When $B \downarrow$ flux into the page (Decreases) When $B \downarrow$ flux out of page (Increases)

AC Generator

AC generator for AC generator because of continuous rotation direction of current every half turn. In one complete cycle:

coil in position
coil in position
coil in position
coil in position

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Peak-Value/Amplitude

Peak value equals voltage in the equivalent circuit voltage \mathcal{E} supply which provides the same power.

$\mathcal{E}_{peak} = \frac{P_{avg}}{I_{avg}}$
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Transformer

Application of electromagnetic induction, mutual inductance efficiently, but it is not ideal. They work for AC voltages.

$$\frac{V_1}{N_1} = \frac{V_2}{N_2} = \frac{I_1}{N_1} = \frac{I_2}{N_2}$$

$N_1 \cdot I_1 = N_2 \cdot I_2$ or
 $N_1 \cdot I_1 = N_2 \cdot I_2$ then
 $N_1 \cdot I_1 = N_2 \cdot I_2$
 I_1 will \uparrow or \downarrow then
 I_2 will \downarrow or \uparrow then

Transformer Law

$$I_{primary} = \frac{P_{out}}{V_{primary}}$$

$$P_{out} = I_{secondary} \cdot V_{secondary}$$

$$P_{in} = I_{primary} \cdot V_{primary}$$

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Power doesn't affect by transformer

Transformer allow voltage power to transmitted at higher voltage, higher voltage lower current, lower current lower heat power losses in transmission.

Wave

Transverse wave oscillates in perpendicular to wave direction. Longitudinal wave oscillates parallel to wave direction. Wave travels through.

Wave

Number of wavefronts (odd number) into a number of wavefronts. Length of wave. Two waves (odd) (Constructive Interference)

$\lambda = \frac{v}{f}$
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Double-slit

Double-slit effect is produced when the waves of a wave travel with respect to the observed viewing or apparent slit in frequency for the observer.

Relative motion of source & observer
 Frequency \uparrow or \downarrow
 Relative motion of source & observer
 Frequency \uparrow or \downarrow

Reflection of waves

Normal wave
 Normal wave

Superposition of waves

Constructive interference
 Destructive interference

Resonance

When an object vibrates at natural frequency and external force is comparable the objects amplitude and of the system increases. The force that excites energy on the same rate of oscillation.

Standing Wave

THE OTHER ENDING POINTS (Don't move, don't oscillate)

$$y = A \sin(kx) \cos(\omega t)$$

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$\lambda = \frac{v}{f}$
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Number of nodes
 $\lambda = \frac{v}{f}$
 $\lambda = \frac{v}{f}$

Reflection of Wave

Number of reflections $\frac{d}{\lambda} \cdot \frac{1}{2} \pm 1$ significant reflection

Light as Wave

Light's transverse wave is perpendicular wave in the media. Longitudinal wave transmits parallel wave direction. There's not wave perpendicular to wave direction. There's not wave perpendicular to wave direction.

Interference of Wave

Constructive interference
 Destructive interference

Coherent/Incoherent

Coherent waves don't change phase frequency and wavelength their wavelengths that are in phase with one another EMF. Coherent waves are in step or in phase. Incoherent waves are out of step or out of phase.

Calculation
 $\lambda = \frac{v}{f}$
 $\lambda = \frac{v}{f}$
 $\lambda = \frac{v}{f}$

Diffraction

Constructive (large amplitude) Destructive (small amplitude)

$$d \sin \theta = m \lambda$$

Constructive (large amplitude/maximum) wave amplitude
 $d \sin \theta = m \lambda$

Order separation
 $d \sin \theta = m \lambda$

Distance between any two bright spots or dark bands. There are equal

1. distance from slit to screen
 2. slit separation
 3. number of bright band
 4. d is a dark band then $(m + \frac{1}{2}) \lambda$

Width of central maximum
 $d \sin \theta = m \lambda$

1. slit separation
 2. distance from slit to screen
 3. distance from center to minimum spot or λ
 Number of λ greater intensity \rightarrow fringe separation increase \rightarrow appear further

Refraction of Light

When light change medium, speed will change due to wavelength change. Frequency doesn't change. It will cause refraction.

$$n = \frac{c}{v}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

n. refractive index
 v. speed of light in medium

Snell's Law
 $n_1 \sin \theta_1 = n_2 \sin \theta_2$

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