Common conversions:

RIMS to PEAK XV2 PEAK to PEAK-PEAK × 2 RMS to PEAK-PEAK ×2V2 PEAK to RMS +v2 PEAK-PEAK to RMS +2 PEAK-PEAK to RMS +2V2

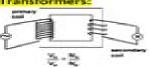
Voltage stepping:

Input power = Output power Current goes up → Voltage goes up Current and Voltage = Opposite

Voltage stepping:

Process of Process Place of Physics

Trainsformers:



An alternating current within the primary coil generates an alternating current in the iron core. The alternating field passes through the secondary coil induces an EMF in the secondary coil.

Peak Max -> Peak Min

$$\frac{V_S}{V_P} = \frac{N_S}{N_P}$$

To generate electricity, we must have a change in magnetic flux in relation to magnetic field. A transformer needs AC to create the changing magnetic field.

Step up = Primary (lower) -> Secondary (higher) Step down = Primary (higher) → Secondary (lower):

Power loss equations:

$$P_{Loss} = V_{Loss} \times I_{Transmission}$$

But,
$$V_{Loss} = I_{Transmission} \times R$$

 $\Rightarrow P_{Loss} = I^2_{Transmission} \times R$

stays the same. Which is why it is best to reduce the current during transmission rather than resistance.

Current is inversely proportional to voltage if the power

Magnetic fluor: The measure of the amount of magnetic field passing through an area. A constant magnetic flux does not produce and electric current, but a changing magnetic flux does.

To change a magnetic flux: move a wire through a constant field, or. rotate a loop of wire in a constant field, or, change the strength of the magnetic field.

$$\Phi_0 = \mathbf{B}_\perp \times \mathbf{A}$$

 $\mathbf{a} = \mathbf{e}_\perp$

(a) is the magnetic flux (Wb - Weber). B. is the magnetic field strength (T) perpendicular to the given area A. A in the area (m)

Hence, field strength can be defined as the flux density, or the number of field lines per square

ENGE:

EMF = Potential Difference (V) -- (The electrical pressure). The magnitude of the induced EMF is directly proportional to the rate of change of magnetic flux.

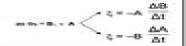
The change in flux induces the Char.

Induced EMF will appose champe in flux.

EMF induced:

For a single toop of with the mount

$$\xi = -\frac{\Delta \Phi_{j_1}}{\Delta t}$$



Size of the EMF induced:

Where the magnetic field is constant, the rate of change in flux is created by the rate of change of area.

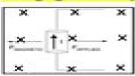
 $\xi = -B \frac{\partial A}{\partial x}$ where $\frac{\partial A}{\partial x}$ represents the rate at which the conductor sweeps out area.

EMF and more loops:

$$\xi = -N \frac{\Delta \Phi_0}{\Delta t}$$

Lenz's law; the direction of the induced EMF is the same as the current which opposes the change in flux that created it.

Changing the flux by moving a wire through area;



Induced current creates a magnetic field and force that will oppose the applied force. Using the right-hand rule, when:

the current flows up, and

the field acts into the page

then the force due to the magnetic field around the wire is to the left.

This Farmer force acts to oppose the applied force- (motion):

an Vision



$$I = \frac{1}{R}, = \frac{1}{2} = 2A$$

$$R_{\text{dinary}} = 4\Omega, I_{\text{prinche}} = \frac{4W}{2V} = 2A, R_{\text{physics}} = \frac{2V}{2A} = 1D$$

$$V = 2 \times (4 + 1) = 10V$$

Total power loss:
 $P_{loss} = J^2R = 2^2 \times 4 = 16W$,

Current in wires. PHVI, 4421, IH 24, Rotio = 10:1, Line current = 0.2A Prower loss during transmission:

 $P_{\text{base}} = F^2 R = 0.2^2 \times 4 = 0.160 V_{\odot}$

Over long-distance transmission of electricity, transformers are used to step up the voltage and consequently step down the current as they are inversely proportional if power stays the same as per-PARTIES.

Ohms Law:



Frequency = 1/period



\$6/2540\$**\$600 - 254 turned.

B-VO - 278.5 - 9.20 O

Page - 178 - 3-57 TO 28 - 3-59W





OE - and coleanument to Rilato R of globe = 9Ω, Supply = 18V OC.

Province im gliobie Ac-

I = V/R = 2A, $P = FV = 2 \times 18 = 36W$

Ministrator Room for transposituation Blooms WHR, In 18/12 = 1.5A (lines) VHIR = 1.5 × 3 = 4.5V

Power delivered to point 8: PHPR = 1.5779 = 20.25W

Transformers reduce power loss as they allow voltage to be stepped up and current to bestepped down as they are inversely proportional where mower remains the same: Petil R. (reducing power loss in the formof heat or excess sound energy Economic Industries of L.

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