

Common conversions:RMS to PEAK $\times \sqrt{2}$ PEAK to PEAK-PEAK $\times 2$ RMS to PEAK-PEAK $\times 2\sqrt{2}$ PEAK to RMS $\div \sqrt{2}$ PEAK-PEAK to RMS $\div 2$ PEAK-PEAK to RMS $\div 2\sqrt{2}$ **Voltage stepping:**

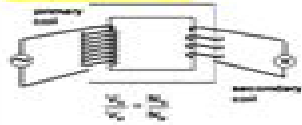
Input power = Output power

Current goes up \rightarrow Voltage goes up

Current and Voltage = Opposite

Voltage stepping:

$P_{in} = P_{out}$	\rightarrow	$\frac{V_s}{V_p} = \frac{N_s}{N_p}$
$P_{in} = P_{out}$		

Transformers:

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

Peak Max \rightarrow 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) \rightarrow Secondary (higher)
Step down = Primary (higher) \rightarrow Secondary (lower)

Power loss equations:

$$P_{loss} = V_{loss} \times I_{transmission}$$

But, $V_{loss} = I_{transmission} \times R$
 $\rightarrow P_{loss} = I_{transmission}^2 \times R$

Current is inversely proportional to voltage if the power stays the same. Which is why it is best to reduce the current during transmission rather than resistance.

Magnetic flux:

The measure of the amount of magnetic field passing through an area. A constant magnetic flux does not produce an 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.

$$\Phi_B = \mathbf{B} \cdot \mathbf{A}$$

$$\therefore B = \frac{\Phi_B}{A}$$

Φ_B is the magnetic flux (Wb - Weber)
 B is the magnetic field strength (T)
 A is the area (m²)

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

EMF:

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 EMF.

Induced EMF will oppose change in flux.

EMF induced:

For a single loop of wire, the induced EMF can be calculated as

$$\mathcal{E} = - \frac{\Delta \Phi_B}{\Delta t}$$

The minus sign is important, but is ignored in simple calculations

$$\text{as } \Phi_B = \mathbf{B} \cdot \mathbf{A} \quad \left\{ \begin{array}{l} \mathcal{E} = -A \frac{\Delta B}{\Delta t} \\ \mathcal{E} = -B \frac{\Delta A}{\Delta t} \end{array} \right.$$

Size of the EMF induced:

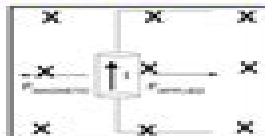
Where the magnetic field is constant, the rate of change in flux is created by the rate of change of area.

$$\mathcal{E} = -B \frac{\Delta A}{\Delta t} \quad \text{where } \frac{\Delta A}{\Delta t} \text{ represents the rate at which the conductor sweeps out area.}$$

EMF and more loops:

$$\mathcal{E} = -N \frac{\Delta \Phi_B}{\Delta t}$$

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 $F_{magnetic}$ force acts to oppose the applied force - (motion)



Calculate the current in the wires:

$$I = \frac{V}{R} = \frac{4}{2} = 2A$$

Voltage output of the power supply:

$$R_{total} = 40 \Omega, I_{globe} = 2A, R_{globe} = \frac{20}{2A} = 10 \Omega$$

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

Total power loss:

$$P_{loss} = I^2 R = 2^2 \times 4 = 16W$$



Current in wires:

$$P_{in} = IV = 4 \times 2 = 8W, I = 2A, R_{load} = 10 \Omega, \text{ Line current} = 0.2A$$

Power loss during transmission:

$$P_{loss} = I^2 R = 0.2^2 \times 4 = 0.16W$$

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: $P = IV$.



Total R of transmission line = 30
R of globe = 90, Supply = 18V DC

Power in globe A:

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

Voltage loss in transmission lines:

$$V_{loss} = IR_{line} = 18/32 \approx 1.5A \text{ (lines)}$$

$$V_{loss} = 1.5 \times 3 = 4.5V$$

Power delivered to point B:

$$P_{out} = 1.5^2 \times 90 = 20.25W$$

Transformers reduce power loss as they allow voltage to be stepped up and current to be stepped down as they are inversely proportional where power remains the same: $P = IV$. (reducing power loss in the form of heat or excess sound energy from buzzing).

Ohms Law:

Frequency = 1/period



Primary coil = 500 turns, secondary = 50/240 = 100 = 24 turns.

Shed light = 5W so resistance of wires = 5W/0.1 = 50/0.5 = 0.25 ohms

Power dissipated in wires = power loss
 $P_{loss} = I^2 R = 0.5^2 \times 0.25 = 0.06W$

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Ningyue Jiang



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Investigation of Reliability Aspects of Power Semiconductors in Photovoltaic Central Inverters for Sunbelt Regions Christian Felgemacher, 2018-03-23 High reliability and system lifetimes in the range of 30 years are essential for renewable energy systems such as photovoltaic power plants to minimise costs for the generated electric energy At the same time such systems are used in regions with high solar irradiance and also harsh environmental conditions Therefore designs for photovoltaic inverters need to meet not only the key design criteria of high conversion efficiency but also need to be very robust and at the same time meet challenging cost targets In this dissertation aspects concerning the lifetime and reliability of power semiconductors in photovoltaic central inverters are investigated On key topic of the dissertation is the measurement of the voltage dependent failure rate due to cosmic radiation induced single event burnout of SiC and Si power semiconductors The second topic is the development of a system level simulation to quantify the stress on the power semiconductors in a PV central inverters in various regions of the world Further topics are the investigation of improved control concepts for the cooling system of PV central inverters and the monitoring of IGBT temperatures during converter operation

Physics for B.Sc. Students: Semester IV Perspectives of Modern Physics and Basic Electronics NEP 2020 Uttar Pradesh P S Hemne & C L Arora, This book has been conceptualized as per the recommended National Education Policy NEP 2020 and as per syllabus prescribed by Universities of Uttar Pradesh for B Sc Students of Physics for the Fourth Semester This textbook comprehensively covers two papers Theory and Practical Part A begins with Structure of Space Time in Newtonian Mechanics Galilean Transformation and Electromagnetism Leading to the Foundation of Theory of Relativity is studied in detail The experimental background of

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in electrical engineering and other engineering fields Entrepreneurship is considered here in three fields of electrical engineering viz power semiconductor devices power electronics and electric machines and drive systems and their current practice It prepares the reader by providing a review of the subject matter in the three fields their current status in research and development with analysis aspect as needed thus allowing readers to gain self sufficiency while reading the book Each field s emerging applications current market and future market forecasts are introduced to understand the basis and need for emerging startups Practical learning is introduced in i power semiconductor devices entrepreneurship through the prism of 20 startups in detail ii power electronics entrepreneurship through 28 startup companies arranged under various application fields and iii electric machines and drive systems entrepreneurship through 15 startups in electromagnetic and 1 in electrostatic machines and drive systems The book i demystifies entrepreneurship in a practical way to equip engineers and students with entrepreneurship as an option for their professional growth pursuit and success ii provides engineering managers and corporate level executives a detailed view of entrepreneurship activities in the considered three fields that may potentially impact their businesses iii provides entrepreneurship education in an electrical engineering environment and with direct connection and correlation to their fields of study and iv endows a methodology that can be effectively employed not only in the three illustrated fields of electrical engineering but in other fields as well This book is for electrical engineering students and professionals For use in undergraduate and graduate courses in electrical engineering the book contains discussion questions exercise problems team and class projects all from a practical point of view to train students and assist professionals for future entrepreneurship endeavors

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