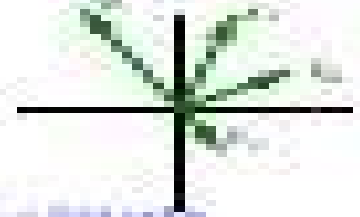


Chapter 17: AC

Phasor info: $\omega = 1000 \text{ rad/s}$, $V_{\text{eff}} = 100 \text{ V}$

Notes:

1. ω is the angular velocity (radians per second) & frequency (cycles per second) of either an AC source that causes electromagnetic induction in conductors or AC voltage.
2. ω is the angular displacement (radians) or phase angle. When AC voltage is applied to a circuit, the instantaneous voltage changes.
3. ω is the angular frequency of an AC voltage or current. It is the rate at which the instantaneous voltage or current changes. $\omega = 2\pi f$ or $f = \frac{\omega}{2\pi}$ or $f = \frac{1}{T}$ or $T = \frac{1}{f}$ or $T = \frac{2\pi}{\omega}$
4. ω is the angular displacement (radians) of a system with angular frequency ω . It is the rate at which the instantaneous voltage or current changes. $\omega = 2\pi f$ or $f = \frac{\omega}{2\pi}$ or $f = \frac{1}{T}$ or $T = \frac{1}{f}$ or $T = \frac{2\pi}{\omega}$
5. ω is the angular displacement (radians) of a system with angular frequency ω . It is the rate at which the instantaneous voltage or current changes. $\omega = 2\pi f$ or $f = \frac{\omega}{2\pi}$ or $f = \frac{1}{T}$ or $T = \frac{1}{f}$ or $T = \frac{2\pi}{\omega}$
6. ω is the angular displacement (radians) of a system with angular frequency ω . It is the rate at which the instantaneous voltage or current changes. $\omega = 2\pi f$ or $f = \frac{\omega}{2\pi}$ or $f = \frac{1}{T}$ or $T = \frac{1}{f}$ or $T = \frac{2\pi}{\omega}$



$$V = \frac{1}{\sqrt{2}} V_m = \frac{1}{\sqrt{2}} (100 \text{ V}) = 70.7 \text{ V}$$

$$I = \frac{V}{Z} = \frac{70.7 \text{ V}}{10 \Omega} = 7.07 \text{ A}$$

$$P = \frac{1}{2} I^2 R = \frac{1}{2} (7.07 \text{ A})^2 (10 \Omega) = 250 \text{ W}$$

The AC source supplies with $V_m = 100 \text{ V}$ at $f = 60 \text{ Hz}$ a series combination of a resistor and an inductor.

- a. Find V_m in V .
- b. Find I_{eff} in A .
- c. Find P in W .



$V_m = 100 \text{ V}$ is the peak voltage of the AC source.

$$I_{\text{eff}} = \frac{V_m}{\sqrt{2}} = \frac{100 \text{ V}}{\sqrt{2}} = 70.7 \text{ A}$$

$$P = \frac{1}{2} I_{\text{eff}}^2 R = \frac{1}{2} (70.7 \text{ A})^2 (10 \Omega) = 250 \text{ W}$$

$$I_{\text{eff}} = \frac{V_m}{\sqrt{2}} = \frac{100 \text{ V}}{\sqrt{2}} = 70.7 \text{ A}$$

$$P = \frac{1}{2} I_{\text{eff}}^2 R = \frac{1}{2} (70.7 \text{ A})^2 (10 \Omega) = 250 \text{ W}$$

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Judd E. Hollander



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Physics Richard T. Weidner,1965 **Elementary Classical Physics: Electromagnetism and wave motion** Richard T. Weidner,Robert L. Sells,1965 Physics Physical Science Study Committee,1965 A general physics textbook Essentials of Physics John D. Cutnell,Kenneth W. Johnson,2006 No further information has been provided for this title Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt,1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt s text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics University Physics Hugh D. Young,2000 The Cumulative Book Index ,1933 **Timetable** University of Illinois at Urbana-Champaign,1914 **Studying in the Content Areas** Carole Bogue,1993

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