

SINGLE PHASE CIRCUITS

① Alternating current [A.C] through pure Resistance circuit



→ pure resistive circuit.

Consider a simple circuit of a pure resistance 'R' Ohms, connected across alternating voltage $e = E_m \sin wt$, and 'i' is an alternating current flows through it. according to ohm's law;

$$i = \frac{e}{R} = \frac{E_m \sin wt}{R} \left(\frac{E_m}{R} \right) \sin wt$$

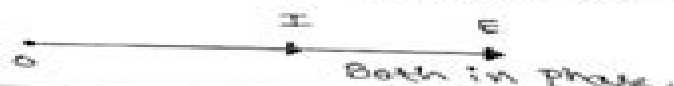
$$i = I_m \sin wt, \text{ where } I_m = \left(\frac{E_m}{R} \right)$$

This is the equation giving instantaneous value of current comparing this with standard equation

$$i = I_m \sin(\omega t + \phi)$$

$$I_m = \left(\frac{E_m}{R} \right) \text{ and } \phi = 0$$

So, maximum value of alternating current, 'i' is $I_m = \frac{E_m}{R}$ $\phi = 0$. it indicates that 'current is in phase with the voltage'.



In purely resistive circuit, the current and the voltage applied are in phase with each other.

→ 'power':

The instantaneous power in a.c circuits can be obtained by taking product of the instantaneous values of current and voltage

$$P = e i$$


$$P = (E_m \sin wt) (I_m \sin wt)$$

$$= E_m I_m \sin^2 wt$$

$$= E_m I_m \left(\frac{1 - \cos 2\omega t}{2} \right)$$

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Advances in VLSI, Signal Processing, Power Electronics, IoT, Communication and Embedded Systems Shubhakar Kalya, Muralidhar Kulkarni, K. S. Shivaprakash, 2021-04-10 This book comprises select peer reviewed papers from the International Conference on VLSI Signal Processing Power Electronics IoT Communication and Embedded Systems VSPICE 2020 The book provides insights into various aspects of the emerging fields in the areas Electronics and Communication Engineering as a holistic approach The various topics covered in this book include VLSI embedded systems signal processing communication power electronics and internet of things This book mainly focuses on the most recent innovations trends concerns and practical challenges and their solutions This book will be useful for academicians professionals and researchers in the area of electronics and communications and electrical engineering

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The National Union Catalogs, 1963-1964

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Emerging Research in Computing, Information, Communication and Applications N. R. Shetty, L. M. Patnaik, H. C. Nagaraj, Prasad N. Hamsavath, N. Nalini, 2021-11-30 This book presents the proceedings of International Conference on Emerging Research in Computing Information Communication and Applications ERCICA 2020 The conference provides an interdisciplinary forum for researchers professional engineers and scientists educators and technologists to discuss debate and promote research and technology in the upcoming areas of computing information communication and their applications The book discusses these emerging research areas providing a valuable resource for researchers and practicing engineers alike

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