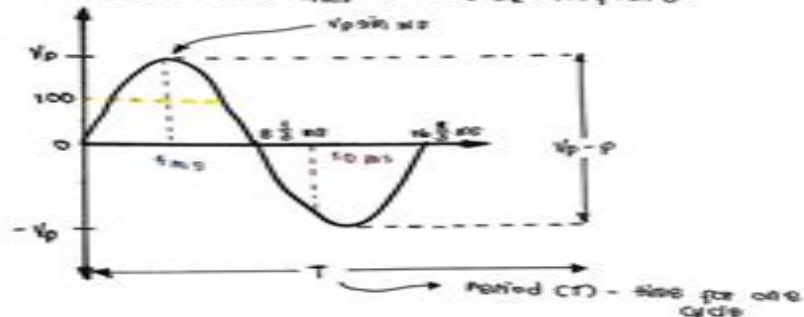


06 ALTERNATING CURRENT FUNDAMENTALS

AC source is 220 V_{rms} at 60 Hz frequency



$$V_{peak} = \sqrt{2} V_{rms} \quad \text{root mean square}$$

$$V_{peak} = \sqrt{2} (220)$$

$$V_{peak} = 311.13 \text{ V}_p$$

$$V_{p-p} = 2 V_p$$

$$V_{p-p} = 2 (311.13)$$

$$V_{p-p} = 622.26 \text{ V}_{p-p}$$

$$T = \frac{1}{f}$$

$$= \frac{1}{60 \text{ Hz}}$$

$$T = 16 \frac{2}{3} \text{ ms}$$

Find V at 4 ms

$$V_{4ms} = V_p \sin \omega t$$

$$= 311.13 \sin 2\pi(60)t$$

$$= 311.13 \sin 120\pi t$$

$$= 311.13 \sin 120\pi(4ms)$$

$$V_{4ms} = 310.52 \text{ V}$$

Find V at 10 ms

$$V_{10ms} = V_p \sin \omega t$$

$$= 311.13 \sin [180(180)(4 \times 10^{-3})]$$

$$= 311.13 \sin (86.40^\circ)$$

$$V_{10ms} = 310.52 \text{ V}$$

Find V at 10 ms

$$V_{10ms} = V_p \sin \omega t$$

$$= 311.13 \sin 120\pi(10ms)$$

$$V_{10ms} = -182.88 \text{ V}$$

Find t_1 and t_2 when $V = 100 \text{ V}$

$$100 = 311.13 \sin 120\pi t$$

$$\left[\frac{100}{311.13} = \sin 120\pi t \right] \sin^{-1}$$

$$\sin^{-1} \frac{100}{311.13} = 120\pi t$$

$$t_1 = \frac{\sin^{-1} \frac{100}{311.13}}{120\pi}$$

$$t_1 = 0.87 \text{ ms}$$

$$t_2 = \frac{8 \frac{1}{3}}{60} - t_1$$

$$= \frac{8 \frac{1}{3}}{60} - 0.87$$

$$t_2 = 7.46 \text{ ms}$$

Checking:

$$t_1 = 311.13 \sin 120\pi(0.87 \text{ ms})$$

$$V = 100.225 \text{ V}$$

$$t_2 = 311.13 \sin 120\pi(7.46 \text{ ms})$$

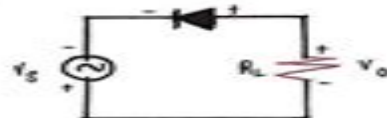
$$V = 100.6 \text{ V}$$

DIODES USED IN AC APPLICATIONS

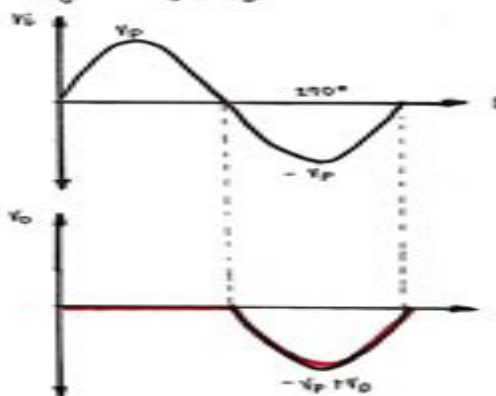
1. Clipper circuits
 - are electronic circuits that removes certain portion of the input signal; "clip off"
 - a. Series Clipper Circuits - the diode is in series between the input and the output
 - Series Positive Clipper - positive portion is removed



⊕ cycle (D is off)
 $V_o = 0 \text{ V}$



⊖ cycle (D is on)
 $-V_S + V_p - V_o = 0$
 $V_o = -V_S + V_p$



If V_S is 5 V_{rms}, plot the output voltage, V_o using silicon diodes

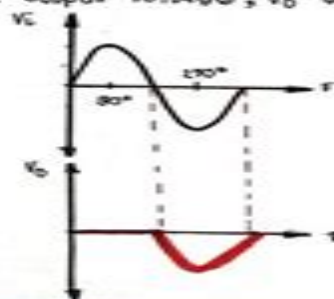
$$V_p = \sqrt{2} V_{rms}$$

$$= \sqrt{2} (5)$$

$$V_p = 7.07 \text{ V}_p$$

⊕ cycle
 $V_o = 0 \text{ V}$

⊖ cycle: $V_o = -V_S + V_p$
at 180°
 $V_o = -V_p + V_p$
 $V_o = -(7.07 \text{ V}) + 0.7 \text{ V}$
 $V_o = -6.37 \text{ V}_p$



Alternating Current Fundamentals

IM Harris



Alternating Current Fundamentals:

Alternating Current Fundamentals John R. Duff, Milton Kaufman, 1980 *Alternating Current Fundamentals* Joseph J. De France, 1957 *Alternating Current Fundamentals-Iml 6e* Duff, Herman, 2000-01-01 This comprehensive book on AC theories and applications has been revised and updated to contain the latest in alternating current applications *Alternating Current Fundamentals* Arthur P. Dillow, 1966 Basic principles for students and technicians *Alternating Current Fundamentals* Duff, 1973-11-01 *Alternating Current Fundamentals* Clarence H. Bensman, 1949 **Suggested Unit Course in Alternating Current Fundamentals ...** New York (State). Bureau of Industrial and Technical Education, 1942

Basic Electrical And Electronics Engineering (PTU, Jalandhar) R. K. Rajput, 2006 **Alternating Current** Bergwall Productions Inc., 1993-01-01 This series introduces the major categories of AC usage for electrical power and discusses magnetism and relates magnetism to electricity This series introduces how electricity is generated and examines the parts of a simple generator Various ways of producing AC and the construction of the AC waveform are discussed along with demonstrations of using the oscilloscope to take measurements The basic concepts of capacitors inductors and transformers are introduced as well as the basic concepts of reactance and electrical power ALSO AVAILABLE CALL CUSTOMER SUPPORT TO ORDER BOTH VIDEO AND MPEG CD ROM Keywords Electronics *Suggested Unit Course in Alternating Current Fundamentals for Radio* University of the State of New York. Bureau of Industrial and Technical Education, 1942 *Alternating Current Fundamentals* Bergwall Productions Inc., Thomson Delmar Learning, 1993-01-01 Features explains magnetism and electromagnetism shows how electrical generators and motors operate compares generating AC to DC current details AC measurement explains capacitors inductors and transformers **Alternating Current Fundamentals, [ECH Master]** Stephen L. Herman, 2009 **Alternating Current Fundamentals-Instructor's Guide 7e** Herman, 2006-08-01 **Measuring AC** Bergwall Productions Inc., Thomson Delmar Learning, 1993-01-01 Features explains magnetism and electromagnetism shows how electrical generators and motors operate compares generating AC to DC current details AC measurement explains capacitors inductors and transformers *Fundamentals of Electrical Engineering and Electronics (LPSPE)* Theraja B.L., 2022-01-03 Fundamentals of Electrical Engineering and Electronics is a useful book for undergraduate students of electrical engineering and electronics as well as B Sc Electronics The book discusses concepts such as Network Analysis Capacitance Electromagnetic Induction Motors Circuits and Diodes in an easy to relate and thereby understand manner Designed in accordance with the syllabi of most major universities the book is an essential resource for anyone aspiring to learn the fundamentals and teaches students much about the subject itself A book which has seen foreseen and incorporated changes in the subject for more than 50 years it continues to be one of the most sought after texts by the students **Basics of Electrical and Electronics Engineering** Thakur Publication, 2022-03-11 Buy Solved Series of Basics of Electrical and Electronics Engineering E Book for B Tech I II Semester Students Common to

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