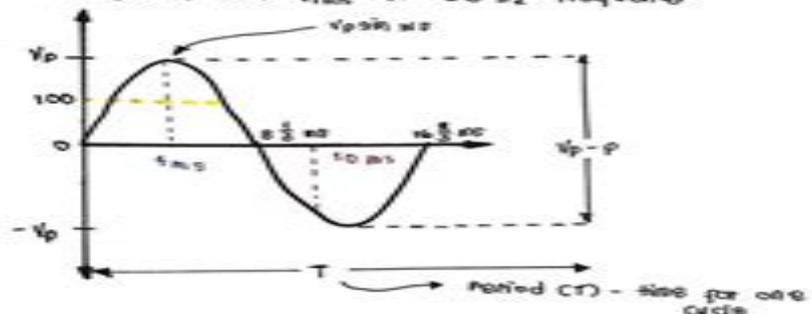


06 ALTERNATING CURRENT FUNDAMENTALS

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



$V_{peak} = \sqrt{2} V_{rms}$ (root mean square)
 $V_{peak} = \sqrt{2} (220)$
 $V_{peak} = 311.13 V_p$
 $V_{p-p} = 2V_p$
 $V_{p-p} = 2 (311.13)$
 $V_{p-p} = 622.26 V_{p-p}$

$T = \frac{1}{f}$
 $T = \frac{1}{60 \times 2}$
 $T = 16 \frac{2}{3} ms$

Find V at 4 ms
 $V_{4ms} = V_p \sin \omega t$
 $= 311.13 \sin 2\pi(60)t$
 $= 311.13 \sin 120\pi t$
 $= 311.13 \sin 120\pi(4ms)$
 $V_{4ms} = 310.52 V$

using Radians

Find V at 10ms
 $V_{10ms} = V_p \sin \omega t$
 $= 311.13 \sin [180(180)(4 \times 10^{-3})]$
 $= 311.13 \sin (86.40^\circ)$
 $V_{10ms} = 310.52 V$

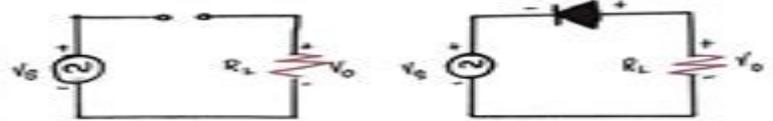
using degrees

Find t_1 and t_2 when $V = 100V$
 $100 = 311.13 \sin 120\pi t$
 $\left[\frac{100}{311.13} = \sin 120\pi t \right] \sin^{-1}$
 $\sin^{-1} \frac{100}{311.13} = 120\pi t$
 $t_1 = \frac{\sin^{-1} \frac{100}{311.13}}{120\pi}$
 $t_1 = 0.87 ms$
 $t_2 = \frac{1}{2} T - t_1$
 $= \frac{1}{2} (16 \frac{2}{3}) - 0.87$
 $t_2 = 7.46 ms$

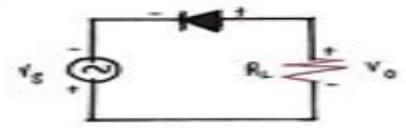
Checking:
 $V = 311.13 \sin 120\pi(0.87 ms)$
 $V = 100.225 V$
 $t_2 = \frac{1}{2} T - t_1$
 $V = 311.13 \sin 120\pi(7.46 ms)$
 $V = 100.6 V$

DIODES USED IN AC APPLICATIONS

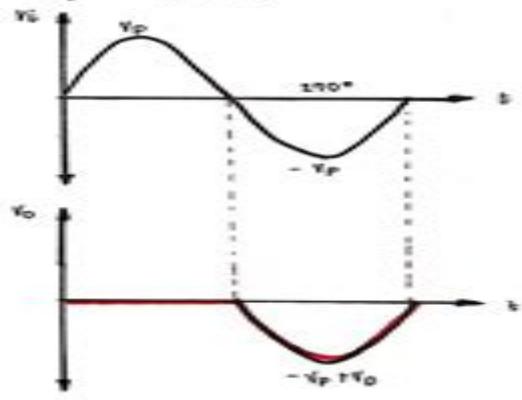
- 1. Clipper circuits
 - are electronic circuits that removes certain portion of the input signal; "clip off"
 - Series Clipper Circuits - the diode is in series between the input and the output
 - Series Positive Clipper - positive portion is removed



⊕ cycle (D is off)
 $V_o = 0V$

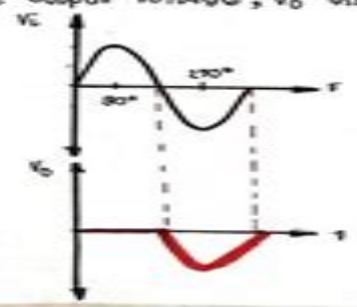


⊖ cycle (D is on)
 $-V_s + V_p - V_o = 0$
 $V_o = -V_s + V_p$



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

$V_p = \sqrt{2} V_{rms}$
 $= \sqrt{2} (5)$
 $V_p = 7.07 V_p$
 ⊕ cycle
 $V_o = 0V$
 ⊖ cycle: $V_o = -V_s + V_D$
 at 180°
 $V_o = -V_p + V$
 $= -(7.07 V) + 0.7 V$
 $V_o = -6.37 V_p$



Alternating Current Fundamentals

Yijin Wang

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle behind it.

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