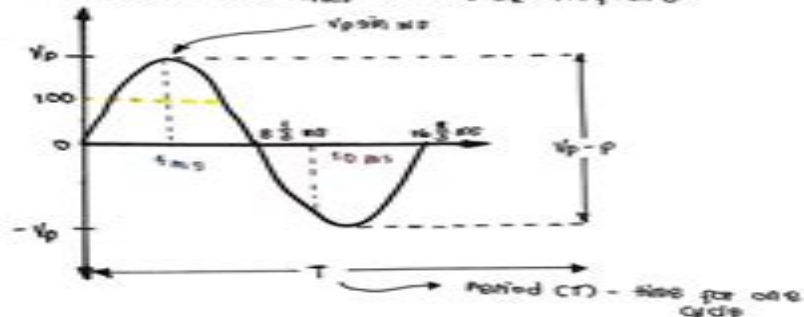


# 06 ALTERNATING CURRENT FUNDAMENTALS

AC source is 220 V<sub>rms</sub> at 60 Hz frequency



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

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

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

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

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

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

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

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

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

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  $V = 100 \text{ V}$

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

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

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

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

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

$$t_2 = \frac{8 \frac{1}{3}}{2} - t_1$$

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

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

Checking:

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

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

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

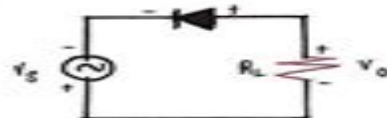
$$V = 100.6 \text{ V}$$

## DIODES USED IN AC APPLICATIONS

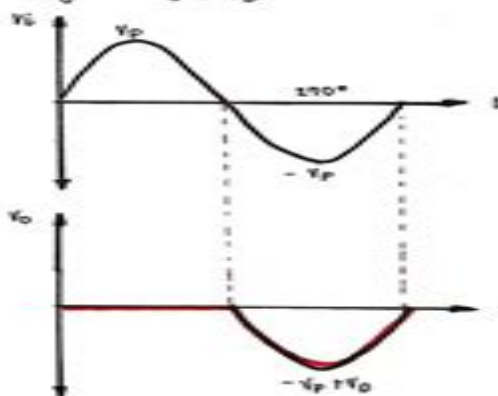
1. Clipper circuits
  - are electronic circuits that removes certain portion of the input signal; "clip off"
  - a. Series Clipper Circuits - the diode is in series between the input and the output
  - Series Positive Clipper - positive portion is removed



⊕ 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<sub>rms</sub>, plot the output voltage,  $V_O$  using silicon diodes

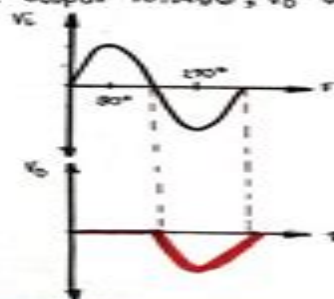
$$V_p = \sqrt{2} V_{rms}$$

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

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

⊕ cycle  
 $V_O = 0 \text{ V}$

⊖ cycle:  $V_O = -V_S + V_D$   
at  $180^\circ$   
 $V_O = -V_p + V_D$   
 $V_O = -(7.07 \text{ V}) + 0.7 \text{ V}$   
 $V_O = -6.37 \text{ V}_p$



# Alternating Current Fundamentals

**Karin Nielsen-Saines**



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energy into kinetic energy this kinetic energy is then converted to become mechanical energy that is formed in a turbine  
shaft rotation furthermore the turbine shaft is connected with a mechanism that is driven can be

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web may 12 2011 the steam piping must be designed to allow for expansion and contraction of the steam piping the steam lines must have the correct number of appropriately sized hanger supports guides should ensure there are no forces or moments on the turbine that exceed the values provided by the turbine manufacturer if the piping is unable to flex