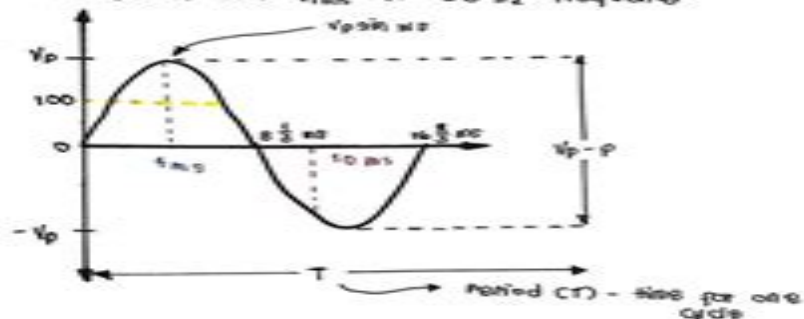


06 ALTERNATING CURRENT FUNDAMENTALS

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 $V = 100 \text{ V}$

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

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

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

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

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

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

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

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

Checking:

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

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

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

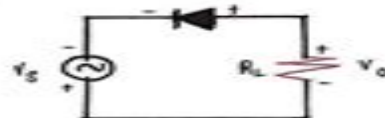
$$V = 100.6 \text{ V}$$

DIODES USED IN AC APPLICATIONS

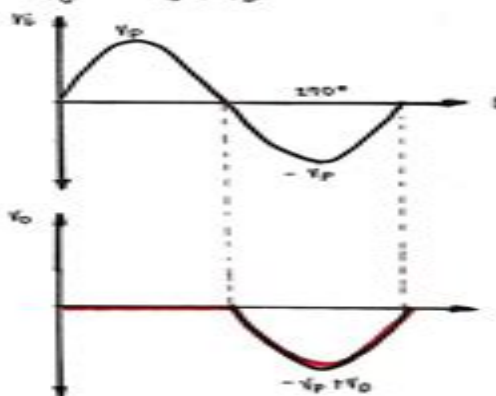
1. Clipper circuits
 - are electronic circuits that removes certain portion of the input signal; "clip off"
 - a. Series Clipper Circuits - the diode is in series between the input and the output
 - Series Positive Clipper - positive portion is removed



⊕ 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_{rms}, plot the output voltage, V_O using silicon diodes

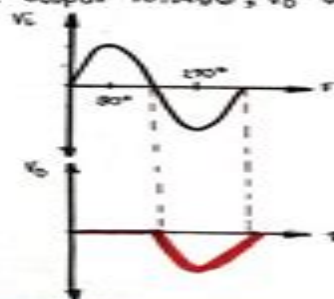
$$V_p = \sqrt{2} V_{rms}$$

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

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

⊕ cycle
 $V_O = 0 \text{ V}$

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



Alternating Current Fundamentals 3ed

Norman J. Lass, Jeremy J. Donai



Alternating Current Fundamentals 3ed:

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1. Understanding the eBook Alternating Current Fundamentals 3ed
 - The Rise of Digital Reading Alternating Current Fundamentals 3ed
 - Advantages of eBooks Over Traditional Books
2. Identifying Alternating Current Fundamentals 3ed
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Alternating Current Fundamentals 3ed
 - User-Friendly Interface
4. Exploring eBook Recommendations from Alternating Current Fundamentals 3ed
 - Personalized Recommendations
 - Alternating Current Fundamentals 3ed User Reviews and Ratings

- Alternating Current Fundamentals 3ed and Bestseller Lists
- 5. Accessing Alternating Current Fundamentals 3ed Free and Paid eBooks
 - Alternating Current Fundamentals 3ed Public Domain eBooks
 - Alternating Current Fundamentals 3ed eBook Subscription Services
 - Alternating Current Fundamentals 3ed Budget-Friendly Options
- 6. Navigating Alternating Current Fundamentals 3ed eBook Formats
 - ePub, PDF, MOBI, and More
 - Alternating Current Fundamentals 3ed Compatibility with Devices
 - Alternating Current Fundamentals 3ed Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Alternating Current Fundamentals 3ed
 - Highlighting and Note-Taking Alternating Current Fundamentals 3ed
 - Interactive Elements Alternating Current Fundamentals 3ed
- 8. Staying Engaged with Alternating Current Fundamentals 3ed
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Alternating Current Fundamentals 3ed
- 9. Balancing eBooks and Physical Books Alternating Current Fundamentals 3ed
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Alternating Current Fundamentals 3ed
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Alternating Current Fundamentals 3ed
 - Setting Reading Goals Alternating Current Fundamentals 3ed
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Alternating Current Fundamentals 3ed
 - Fact-Checking eBook Content of Alternating Current Fundamentals 3ed
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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