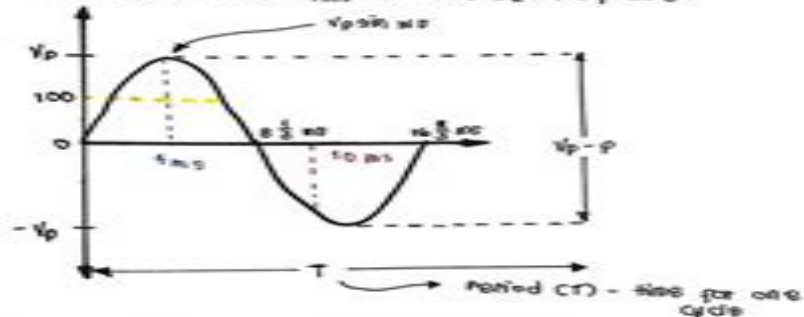


06 ALTERNATING CURRENT FUNDAMENTALS

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



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

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

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

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

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

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

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

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

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

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 $V = 100 \text{ V}$

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

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

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

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

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

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

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

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

Checking:

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

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

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

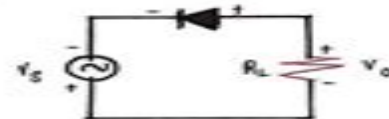
$$V = 100.6 \text{ V}$$

DIODES USED IN AC APPLICATIONS

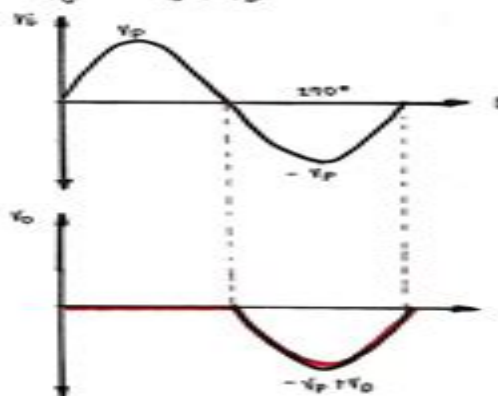
1. Clipper circuits
 - are electronic circuits that removes certain portion of the input signal; "clip off"
 - a. Series Clipper Circuits - the diode is in series between the input and the output
 - Series Positive Clipper - positive portion is removed



⊕ 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

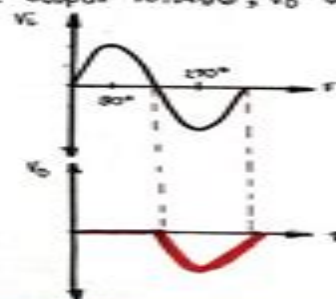
$$V_p = \sqrt{2} V_{rms}$$

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

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

⊕ cycle
 $V_o = 0 \text{ V}$

⊖ cycle: $V_o = -V_s + V_p$
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 3ed

Bandyopadhyay, Jyoti Prasad



Alternating Current Fundamentals 3ed:

Hearing Science Fundamentals, Third Edition Norman J. Lass, Jeremy J. Donai, 2025-06-02 *Hearing Science Fundamentals Third Edition* introduces the basic concepts in hearing science in an easy to understand format for undergraduate and graduate level students. This textbook includes a wide variety of student friendly features designed to facilitate learning and instructor resources for seamless integration to the course. The text is divided into four clear sections to cover everything from the physics of sound to the anatomy and physiology of the auditory pathway and beyond. The textbook begins by delving into the basics of acoustics and digital signal processing DSP. In the next section readers will find full coverage of the basic anatomy and physiology of the auditory mechanism. The third section contains eight chapters on psychoacoustics and how sound is perceived via the auditory pathways. The final section discusses pathologies of the auditory mechanisms. Multiple disorders from each portion of the auditory system are described in detail. These chapters are intended to provide an introduction to auditory pathologies to support future coursework in audiology and related fields. New to the Third Edition: Inclusion of additional Clinical Notes and computational examples in text. Discussion topics provided at the end of each chapter to assist with student understanding of chapter material. Additional topics included in multiple chapters such as information on auditory scene analysis, navigating the auditory scene and the various decibel scales dB SL, dB HL, etc. Links to helpful videos to enhance student understanding of topics from each chapter. Key Features: Learning Objectives and Key Terms at the beginning of each chapter prepare the student for the chapter contents. More than 150 anatomical and line illustrations aid understanding of important technical concepts. Q & A boxes reinforce important information presented in the text. Suggested readings at the end of each chapter for further clarification and study of the technical contents of each chapter. A Glossary of important terms.

Guide to RRB Junior Engineer Stage II Electrical & Allied Engineering 3rd Edition Disha Experts, 2019-01-30. *Guide to RRB Junior Engineer Stage II Electrical Allied Engineering 3rd Edition* covers all the 5 sections including the Technical Ability Section in detail. The book covers the complete syllabus as prescribed in the latest notification. The book is divided into 5 sections which are further divided into chapters which contain theory explaining the concepts involved followed by Practice Exercises. The Technical section is divided into 11 chapters. The book provides the Past 2015, 2014 Solved questions at the end of each section. The book is also very useful for the Section Engineering Exam.

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Crystal Growth For Beginners: Fundamentals Of Nucleation, Crystal Growth And Epitaxy (Third Edition) Ivan Vesselinov Markov, 2016-12-29 The book is well organized and is pedagogical By discussing crystallization in pure systems the author introduces and describes the important concepts physical parameters and theoretical models pertaining to nucleation and growth of crystals If you are a young investigator or a graduate student whose research involves understanding the fundamentals of crystallization including nucleation and growth this book will be a treat for you Readers who have a strong background in physical chemistry or thermal physics may find the book easy to read Nevertheless this book should be a good reference to have on the bookshelf if you are an experienced researcher whose interest crosses the path with the general

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Sugarman, 2020-11-26 Updated with chapters on ventilating and exhausting systems and HVAC systems this third edition of a bestseller covers the range of HVAC systems The coverage is into components and controls for air water heating ventilating and air conditioning and readers will learn why one component or system may be chosen over another This master volume covers the full range of HVAC systems used in today's facilities Comprehensive in scope the text is intended to provide the reader with a clear understanding of how HVAC systems operate as well as how to select the right system and system components to achieve optimum performance and efficiency for a particular application You'll learn the specific ways in which each system subsystem or component contributes to providing the desired indoor environment as well as what factors have an impact on energy conservation indoor air quality and cost Examined in detail are compressors water chillers fans and fan drives air distribution and variable air volume pumps and water distribution controls and their components heat recovery and energy conservation strategies Also covered are heat flow fundamentals as well as heat flow calculations used in selecting equipment and determining system operating performance and costs **McGraw-Hill Encyclopedia of Engineering** Sybil P. Parker, 1993 **Electrical Machines with MATLAB** Turan Gonen, 2011-11-16 Electrical Machines with MATLAB encapsulates the invaluable insight and experience that eminent instructor Turan Gonen has acquired in almost 40 years of teaching With simple versatile content that separates it from other texts on electrical machines this book is an ideal self study tool for advanced students in electrical and other areas of eng **The RFID Certification Textbook, 3rd Edition** Harold Clampitt, 2007 *Fourier Transforms* Goran Nikolic, Dragan Cvetkovic, Milorad Cakic, 2017-02-08 The main purpose of this book is to provide a modern review about recent advances in Fourier transforms as the most powerful analytical tool for high tech application in electrical electronic and computer engineering as well as Fourier transform

spectral techniques with a wide range of biological biomedical biotechnological pharmaceutical and nanotechnological applications The confluence of Fourier transform methods with high tech opens new opportunities for detection and handling of atoms and molecules using nanodevices with potential for a large variety of scientific and technological applications

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Solid State Electronics Devices (For MAKAUT), 3rd Edition Bandyopadhyay, Jyoti Prasad, Devices has been written for the undergraduate students of Electronics and Electrical Engineering The book caters to introductory and advance courses on Solid State Devices It is student friendly and written for those who like to understand the subject from a physical perspective Even teachers and researchers will benefit immensely from this book This thoughtfully organized book provides intense knowledge of the subject with the help of lucid descriptions of theories and solved examples and covers the syllabus of most of the colleges under WBUT

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