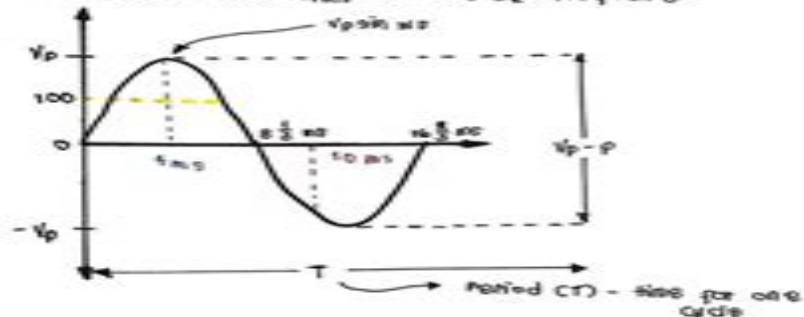


06 ALTERNATING CURRENT FUNDAMENTALS

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:

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

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

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

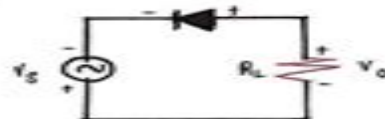
$$V = 100.6 \text{ V}$$

DIODES USED IN AC APPLICATIONS

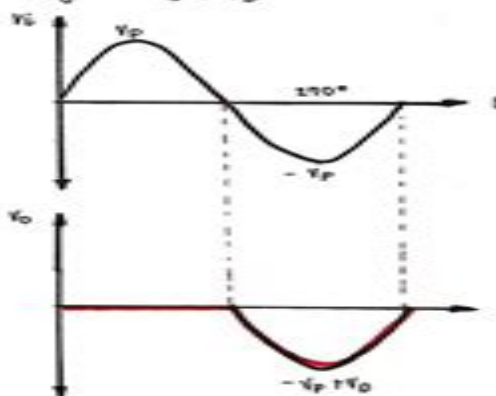
1. Clipper circuits
 - are electronic circuits that removes certain portion of the input signal; "clip off"
 - a. Series Clipper Circuits - the diode is in series between the input and the output
 - Series Positive Clipper - positive portion is removed



⊕ 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

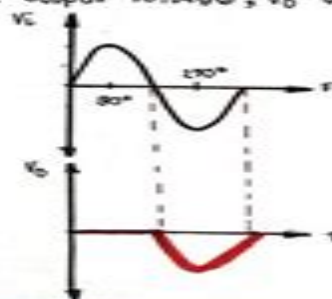
$$V_p = \sqrt{2} V_{rms}$$

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

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

⊕ 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

John R. Duff, Milton Kaufman



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 decibal 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

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at the end of each chapter is provided in the form of Exercise Solutions to the Exercise have been provided at the end of each chapter Another unique feature of the book is the division of its General Awareness section into separate chapters on History Geography Polity Economy General Science Miscellaneous topics and Current Affairs Alternating Current Fundamentals John R. Duff, Milton Kaufman, 1980 *Transport Phenomena Fundamentals, Third Edition* Joel L. Plawsky, 2014-01-23 The third edition of Transport Phenomena Fundamentals continues with its streamlined approach to the subject of transport phenomena based on a unified treatment of heat mass and momentum transport using a balance equation approach The new edition makes more use of modern tools for working problems such as COMSOL Maple and MATLAB It introduces new problems at the end of each chapter and sorts them by topic for ease of use It also presents new concepts to expand the utility of the text beyond chemical engineering The text is divided into two parts which can be used for teaching a two term course Part I covers the balance equation in the context of diffusive transport momentum energy mass and charge Each chapter adds a term to the balance equation highlighting that term's effects on the physical behavior of the system and the underlying mathematical description Chapters familiarize students with modeling and developing mathematical expressions based on the analysis of a control volume the derivation of the governing differential equations and the solution to those equations with appropriate boundary conditions Part II builds on the diffusive transport balance equation by introducing convective transport terms focusing on partial rather than ordinary differential equations The text describes paring down the microscopic equations to simplify the models and solve problems and it introduces macroscopic versions of the balance equations for when the microscopic approach fails or is too cumbersome The text discusses the momentum Bournoulli energy and species continuity equations including a brief description of how these equations are applied to heat exchangers continuous contactors and chemical reactors The book also introduces the three fundamental transport coefficients the friction factor the heat transfer coefficient and the mass transfer coefficient in the context of boundary layer theory The final chapter covers the basics of radiative heat transfer including concepts such as blackbodies graybodies radiation shields and enclosures The third edition incorporates many changes to the material and includes updated discussions and examples and more than 70 new homework problems Catalogue for the Academic Year Naval Postgraduate School (U.S.), 1955

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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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 Clappitt, 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

Alternative Energy Systems M. Godoy Simões, Felix A. Farret, 2007-12-10 New perspectives on using induction generators in alternative energy technologies Durable and cost effective induction power generators have undergone numerous improvements that make them an increasingly attractive option for renewable energy applications particularly for wind and hydropower generation systems From fundamental concepts to the latest technologies Alternative Energy Systems Design and Analysis with Induction Generators Second Edition provides detailed and accurate coverage of all aspects related to the design operation and overall analysis of such systems Placing a greater emphasis on providing clear precise and succinct explanations this second edition features new revised and updated content as well as figures tables equations and examples Each chapter introduces a multi step chapter length problem relating the material to a real application The solution appears at the end of the chapter along with additional practice problems and references New Material in This Edition Updated definitions for generated power and efficiency Technological advances such as new applications using doubly fed induction generators New methodologies such as the magnetization curve representation for induction generators Additional focus on renewable energy applications such as sea wind and hydropower systems Totally re written and updated chapter covering doubly fed induction generators Alternative Energy Systems provides the tools and expertise for advanced students and professionals in electrical mechanical civil and environmental engineering involved in the development of power plants

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 Fundamentals of Electrical Engineering Dr. Yaduvir Singh, Mandhir Verma, 2010-02

Practical MATLAB Basics for Engineers Misza Kalechman, 2018-10-08 A comprehensive and accessible primer this tutorial immerses engineers and engineering students in the essential technical skills that will allow them to put Matlab to immediate use The book covers concepts such as functions algebra geometry arrays vectors matrices trigonometry graphs pre calculus and calculus It then delves into the Matlab language covering syntax rules notation operations computational programming and general problem solving in the areas of applied mathematics and general physics This knowledge can be used to explore the basic applications that are detailed in Misza Kalechman s companion volume Practical Matlab

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