

ELECTRONIC COMPONENTS

CLASSIFICATION OF COMPONENTS

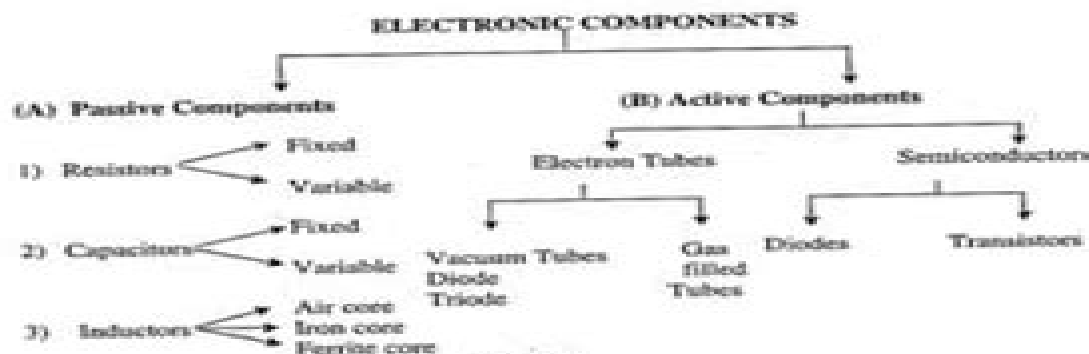


Fig. (4.1)

(a) Passive Components

Since this category belongs to inactive functions of the component, these components do not have capacity to amplify the voltage or to rectify supply therefore, they are called as "Passive components". Resistors, capacitors and inductors are called as passive components.

(b) Active Components

Since these components are capable of performing active functions like amplification, rectification and switching, they are called as "active components".

(i) Electron tubes like Diode, triode and (ii) Semiconductor devices like diode, LED, Transistor etc. Electron tubes are rarely used because they are outdated.

RESISTORS

The value of resistance is measured in Ohm (Ω). Resistance is the opposition to the flow of electrons or simply opposition to the electric current. Resistance is required in electronic circuits to **limit the current, to drop the voltage and to divide the voltage**. In combination with capacitor, it is used as filter or it can be used to achieve a time delay.

Basic Concepts Of Electronics And Communication Engineering

Dr. K. A. Navas, T. A. Suhail



Basic Concepts Of Electronics And Communication Engineering:

Engineering Basics: Electrical, Electronics and Computer Engineering T. Thyagarajan, 2007 Designed For Entry Level Engineering Students This Book Presents A Thorough Exposition Of Electrical Electronics Computer And Communication Engineering Simple Language Has Been Used Throughout The Book And The Fundamental Concepts Have Been Systematically Highlighted This Edition Includes New Chapters On Transmission And Distribution Communication Services Linear And Digital Integrated Circuits Sequential Logic System The Book Also Includes Large Number Of Diagrams For A Clear Understanding Of The Subject Cumerous Solved Examples Illustrating Basic Concepts And Techniques Exercises And Review Questions With Answers Revision Formulae For Quick Review And Recall All These Features Make This Book An Ideal Text For Both Degree And Diploma Students Engineering

Basics of Electrical Electronics and Communication Engineering Dr. K. A. Navas, T. A. Suhail, 2010-08-01 The book is written per the syllabus of first year engineering degree course for various universities It covers basic topics of electrical electronics and communication engineering It also includes worked out examples University examination questions and answers exercise etc in every chapter This book is suitable for course in basic electrical and electronics engineering under various Universities Authors have tried to elucidate the topics in such a way that even a mediocre student can assimilate them Many solved problems sample question papers and exercise given in every section will provide a thorough understanding of the topics Other features include attractive writing style well structured equations and numerical examples pictures of high clarity etc This book is one among prescribed textbooks for the syllabus of BIT Mesra Ranchi

Artificial Intelligence in Electronics and Communication Engineering Sris G, This comprehensive book explores the transformative impact of Artificial Intelligence AI in the field of Electronics and Communication Engineering ECE Beginning with foundational concepts it delves into how AI enhances signal processing and revolutionizes communication technologies like 5G 6G and beyond Readers will discover the integration of AI in software defined radio VLSI and chip design as well as its critical role in the Internet of Things IoT and edge computing The book also covers advanced applications of AI in wireless sensor networks distributed intelligence and multimedia processing including image video and speech Furthermore it examines AI s role in satellite systems and robotics communications while addressing future trends ethical considerations and the research landscape shaping tomorrow s innovations Ideal for engineers researchers and students this text offers a deep understanding of AI driven advancements shaping the future of ECE

Basic Electronics K. Uma Rao, M. A. Ibrar Jahan, 2015-09 This book presents the basic concepts of electronic devices and circuits in an easy to understand manner The main topics covered include semiconductor diodes and their application in rectifiers and voltage regulators transistors their configurations and application in amplifier and oscillator circuits operational amplifiers and their applications and number systems and the fundamentals of analogue communication circuits and basic transducers A number of design and analytic numerical problems have been included to help the student

understand the application of the concepts The book will be useful for the first year course in Engineering **BASIC ELECTRONICS** KAL, SANTIRAM,2009-01-14 This comprehensive and well organized text discusses the fundamentals of electronic communication such as devices and analog and digital circuits which are so essential for an understanding of digital electronics Professor Santiram Kal with his wealth of knowledge and his years of teaching experience compresses within the covers of a single volume all the aspects of electronics both analog and digital encompassing devices such as microprocessors microcontrollers fibre optics and photonics In so doing he has struck a fine balance between analog and digital electronics A distinguishing feature of the book is that it gives case studies in modern applications of electronics including information technology that is DBMS multimedia computer networks Internet and optical communication Worked out examples interspersed throughout the text and the large number of diagrams should enable the student to have a better grasp of the subject Besides exercises given at the end of each chapter will sharpen the student s mind in self study These student friendly features are intended to enhance the value of the text and make it both useful and interesting

Introduction To Electronics And Communication Engineering Dr. Jaladi Vivek,2023-09-06 Introduction to Electronics and Communications Engineering is an enlightening book that takes readers on a journey through the fascinating world of contemporary technology As our world gets more linked understanding electronics and communication systems becomes a valuable tool This book provides a thorough introduction to the fundamental principles theories and applications that constitute this dynamic discipline This book provides a complete trip through the foundations from the fundamental concepts of electrical circuits to the complexities of communication protocols It progresses readers from the fundamental components and rules that control electronics such as resistors capacitors and Ohm s law to the more complex ideas of digital signal processing and wireless communication One of the book s standout strengths is its ability to connect theory to real world applications Readers receive insight into how these notions appear in daily technology from cellphones to satellite communication systems via informative examples and case studies The book also emphasizes problem solving with exercises and problem sets that enable readers to put their newfound knowledge to use This book provides a path for anybody trying to understand the basic ideas in a world where electronics and communication systems impact the way we connect learn and develop Basic Electronics Engineering Syed Akhtar Imam,Vibhav Kumar Sachan,2017-02-28 Explains the fundamental concepts and principles behind digital logic designs in a simple easy to understand manner Each chapter contains solved examples and problems It has been written is to cater to the needs of students of electronics and communication engineering computer science engineering IT and electronics and instrumentation engineering **Basic Concepts of Electrical and Electronics Engineering** P S Subramanyam,Lal Kishore K,2019-09-29 An earnest attempt has been made in the book Basic Concepts of Electrical and Electronics Engineering to elucidate the principles and applications of Electrical and Electronics Engineering and its importance as to evince interest on the topics so that the students gets motivated to study the subject

with the interest ELECTRICAL CIRCUIT ANALYSIS, SECOND EDITION MAHADEVAN, K.,CHITRA, C.,2018-01-01 The book now in its Second Edition presents the concepts of electrical circuits with easy to understand approach based on classroom experience of the authors It deals with the fundamentals of electric circuits their components and the mathematical tools used to represent and analyze electrical circuits This text guides students to analyze and build simple electric circuits The presentation is very simple to facilitate self study to the students A better way to understand the various aspects of electrical circuits is to solve many problems Keeping this in mind a large number of solved and unsolved problems have been included The chapters are arranged logically in a proper sequence so that successive topics build upon earlier topics Each chapter is supported with necessary illustrations It serves as a textbook for undergraduate engineering students of multiple disciplines for a course on circuit theory or electrical circuit analysis offered by major technical universities across the country **SALIENT FEATURES** Difficult topics such as transients network theorems two port networks are presented in a simple manner with numerous examples Short questions with answers are provided at the end of every chapter to help the students to understand the basic laws and theorems Annotations are given at appropriate places to ensure that the students get the gist of the subject matter clearly **NEW TO THE SECOND EDITION** Incorporates several new solved examples for better understanding of the subject Includes objective type questions with answers at the end of the chapters Provides an appendix on Laplace Transforms **Digital Principles and Logic Design Techniques** Arijit Saha, Nilotpal Manna,2007 **Counselling Guru** ,2014-06-25 About CounsellingGuru CounsellingGuru is a comprehensive guide for all the Engineering aspirants of Tamilnadu This book is aimed at providing complete information about engineering studies and statistical analysis on Tamilnadu Engineering Admissions TNEA counselling It gives an insight to the reader about various branches of study in engineering and helps in selecting suitable branch of study based on one s personal preference and performance in final school year Why CounsellingGuru In the recent years the interest towards engineering has increased among student community in Tamilnadu Also in the last 13 years the number of engineering colleges has increased approximately from 200 to 520 In this scenario finding information about all the colleges and selecting the right branch in right college has become a tough task for any engineering aspirant It is not easy to come up with a right decision for one s career based on the vast amount of information available in the internet and through other sources One of the strongest motivations for writing this book is to provide complete information about different engineering branches colleges and the counselling process followed in Tamilnadu Engineering Admissions Analyzing the information about previous year counsellings helps a student to take an informed decision about the suitable branch and college for his her rank Based on the counselling trend from the year 2007 to till date this book is aimed at addressing the basic questions like 1 For one s TNEA rank which is the best college and course 2 What are the top colleges for a particular branch 3 What does one learn in a particular Engineering branch 4 Which branch college was selected by a candidate with the same TNEA rank during the last

few years Counselling Guru will definitely help every engineering aspirant to take right decision for their career What is inside Engineering Branches Overview Scope of each branches who can opt each branch etc List of all Engineering Colleges in Tamilnadu Coming under Anna University Counselling Top Engineering Colleges Overall Top 100 and Branch wise Top 50 priority list TNEA Historic data analysis from TNEA 2007 onward Counselling Worksheet for TNEA Tips for choosing payment seats Guidelines for students and parents appearing for Engineering counselling The guidelines given in this book are developed by authors based on their rich experience in academics and engineering industry More Info <http://www.counsellingguru.com/counsellingguru.html> The Vocational-technical Library Collection Bruce Reinhart, 1970 Mobile Computing Raj Kamal, 2007 Mobile Computing provides a comprehensive coverage of both the communication and computing aspects The student friendly style numerous illustrative examples and exercises for each topic discussed make the text ideal for classroom learning Mobile Computing is designed to serve as a textbook for students in the disciplines of computer science and engineering electronics and communication engineering and information technology It describes the basic concepts of mobile computing and provides technical information about the various aspects of the subject as also the latest technologies that are currently in use The first few chapters present a balanced view of mobile computing as well as mobile communication including the 2G and 3G communication systems mobile IP and mobile TCP The subsequent chapters provide a systematic explanation of mobile computing as a discipline in itself The book provides an in depth coverage of databases in mobile systems methods of data caching dissemination and synchronization Bluetooth IrDA and ZigBee protocols data security mobile ad hoc and wireless sensor networks and programming languages and operating systems for mobile computing devices Written in an easy to understand and student friendly manner the book includes several illustrative examples and sample codes A comprehensive set of exercises is included at the end of each chapter **Electronics and Communication Engineering Handbook** Susurla V. S. Suresh, 2017-02-28 Electronics And Communication Engineering Handbook For ECE Competitive Examinations is a comprehensive book which covers almost all the basic concepts of ECE It is written to address the needs of the students aspirants of the national level competitive examinations in Electronics and Communication Engineering GATE ECE IES BEL ISRO other PSU examinations An extensive study of all the core subjects in electronics and communications is required to crack such examinations This book is written to be a one stop source for study and revision of all the important concepts in ECE so that the students aspirants do not miss any important concept that might be useful for solving problems in the examination The book is an outcome of the author's own experiential insights and it will immensely help the students aspirants in finding the right way and the right approach of preparation for competitive examinations

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