

# ELECTRONIC COMPONENTS

## CLASSIFICATION OF COMPONENTS

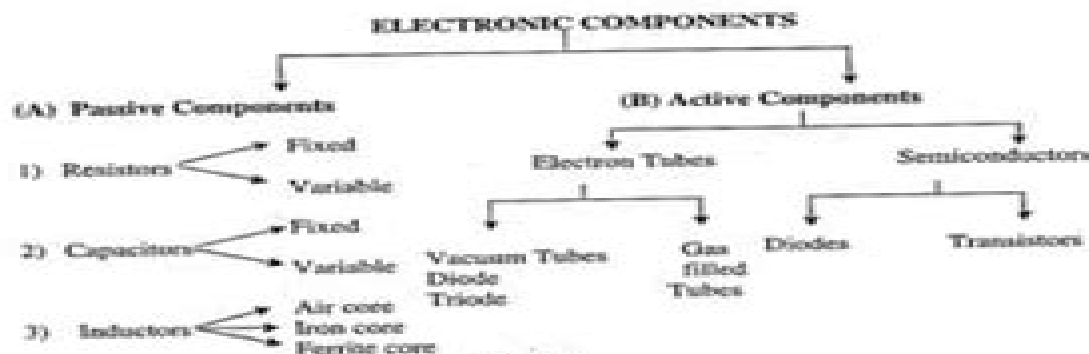


Fig. (4.1)

### (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 Electron tubes are rarely used because they are outdated.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 ( $\Omega$ ). 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

**K. S. Suresh Kumar, K. S.. Suresh Kumar**



## **Basic Concepts Of Electronics And Communication Engineering:**

**GATE 2020 Electronics & Communication Engineering Guide with 10 Practice Sets (6 in Book + 4 Online) 7th edition** Disha Experts, 2019-06-03 GATE Electronics Communication Engineering Guide 2019 with 10 Practice Sets 6 in Book 4 Online Tests 6th edition for GATE exam contains exhaustive theory past year questions practice problems and Mock Tests Covers past 14 years questions Exhaustive EXERCISE containing 100 150 questions in each chapter In all contains around 5200 MCQs Solutions provided for each question in detail The book provides 10 Practice Sets 6 in Book 4 Online Tests designed exactly on the latest pattern of GATE exam      *Foundations of Electronics and Communication Engineering* Ms. V. Kavitha, 2024-11-26 Foundations of Electronics and Communication Engineering offers a comprehensive overview of the fundamental technologies and principles that serve as the foundation of the field of electronics and communication It is intended for students engineers and professionals who are interested in comprehending the theoretical and practical aspects of contemporary communication systems and electronic devices The book commences with a comprehensive examination of semiconductor materials and their properties which are crucial for comprehending the behavior of electronic components such as transistors operational amplifiers and diodes It then explores the operational principles of critical electronic components and systems including logic gates combinational circuits and oscillators and elucidates their practical implementations in a variety of communication systems Communication technologies such as analog and digital modulation signal processing wireless communication and networking are the foundation of contemporary telecommunications and data transmission A substantial portion of the book is devoted to these topics The book also delves into the most recent advancements in microprocessors and optoelectronics among other emerging trends in the field to offer readers a comprehensive perspective on the subject The book consistently prioritizes lucidity offering straightforward explanations and practical examples to assist readers in comprehending even the most intricate concepts It is an indispensable resource for individuals who are either pursuing a professional or academic career in the field of electronics and communication engineering      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      GATE 2019 Electronics & Communication Engineering Masterpiece with 10 Practice Sets (6 in Book + 4 Online) 6th edition Disha Experts, GATE Electronics Communication Engineering Masterpiece 2019 with 10 Practice Sets 6 in Book 4 Online Tests 6th edition for GATE exam contains exhaustive theory past year questions practice problems and Mock Tests Covers past 14 years questions Exhaustive EXERCISE containing 100 150 questions in each chapter In all contains around 5200 MCQs Solutions provided for each question in detail The book provides 10 Practice Sets 6 in Book 4 Online Tests designed exactly

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**Electric Circuit Analysis** K. S. Suresh Kumar,2013 Electric Circuit Analysis is designed for undergraduate course on basic electric circuits The book builds on the subject from its basic principles Spread over fourteen chapters the book can be taught with varying degree of emphasis based on the course requirement Written in a student friendly manner its narrative style places adequate stress on the principles that govern the behaviour of electric circuits      **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

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**Electronics and Communications for Scientists and Engineers** Martin Plonus, 2020-02-25 Electronics and Communications for Scientists and Engineers Second Edition offers a valuable and unique overview on the basics of electronic technology and the internet Class tested over many years with students at Northwestern University this useful text covers the essential electronics and communications topics for students and practitioners in engineering physics chemistry and other applied sciences It describes the electronic underpinnings of the World Wide Web and explains the basics of digital technology including computing and communications circuits analog and digital electronics as well as special topics such as operational amplifiers data compression ultra high definition TV artificial intelligence and quantum computers Incorporates comprehensive updates and expanded material in all chapters where appropriate Includes new problems added throughout the text Features an updated section on RLC circuits Presents revised and new content in Chapters 7 8 and 9 on digital systems showing the many changes and rapid progress in these areas since 2000

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Microwave And Radar Engineering

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