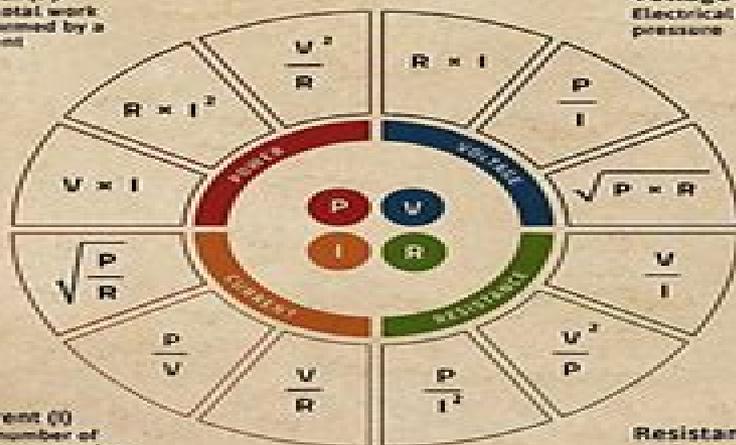


BASIC ELECTRONICS THEORY

Ohm's Law

Power (P)
The total work performed by a current



Voltage (V)
Electrical force or pressure

Current (I)
The number of electrons passing in a single point

Resistance (R)
Resistance to the flow of current

Basic Units

Quantity	Unit
Capacitance	F Farad
Charge	C Coulomb
Current	A Ampere
Energy	J Joule
Force	N Newton
Frequency	Hz Hertz
Inductance	H Henry
Magnetic Flux	Wb Weber
Potential	V Volt
Power	W Watt
Resistance	Ω Ohm

Kirchhoff's Laws

Closed Loop Rule

The directed sum of the electrical potential differences (voltage) around any closed circuit is zero.

$$\sum \Delta V_{\text{closed loop}} = 0$$

$$V_{AB} + V_{BC} + V_{CD} + V_{DA} = 0$$



Junction Rule

The sum of currents entering the junction are thus equal to the sum of currents leaving.

$$\sum I_{\text{in}} = \sum I_{\text{out}}$$

$$I_1 = I_2 + I_3$$



Resistor Network

Series

$$R_T = R_1 + R_2 + R_3$$



Parallel

$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$



Capacitor Network

Series

$$\frac{1}{C_T} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$



Parallel

$$C_T = C_1 + C_2 + C_3$$

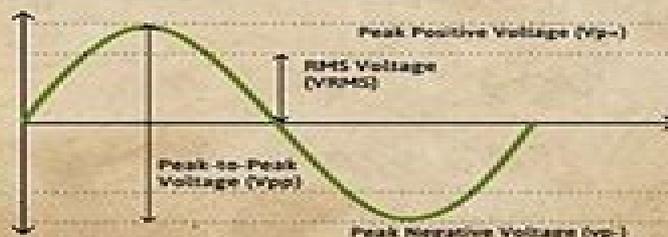


Unit Prefixes

Tera-	T	$\times 10^{12}$	Milli-	m	$\times 10^{-3}$
Giga-	G	$\times 10^9$	Micro-	μ	$\times 10^{-6}$
Mega-	M	$\times 10^6$	Nano-	n	$\times 10^{-9}$
Kilo-	k	$\times 10^3$	Pico-	p	$\times 10^{-12}$
Hecto-	h	$\times 10^2$			
Deka-	Da	$\times 10^1$			
(base)	-	$\times 10^0$			
Deci-	d	$\times 10^{-1}$			
Centi-	c	$\times 10^{-2}$			

examples:
 $25 \mu\text{A} = 25 \times 10^{-6}\text{A} = 0.000025\text{A}$
 $4.7\text{M}\Omega = 4.7 \times 10^6 \Omega = 4,700,000 \Omega$

Alternating Current



Average AC Voltage
 $= 0.637 \times \text{Peak}$
 $= 0.7 \times \text{RMS}$

RMS AC Voltage
 $= 0.707 \times \text{Peak}$
 $= 1.11 \times \text{Average}$

Peak AC Voltage
 $= 1.414 \times \text{RMS}$
 $= 1.57 \times \text{Average}$

Electronics Engineering Basics

Thomas Schubert, Ernest Kim



Electronics Engineering Basics:

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 *Basic Electronics Engineering & Devices* Dr. R.K. Singh, Ashish Dixit, 2007 *Basic Electronics* ML Anand, 2022-01-03 For close to 20 years Basic Electronics Devices and Circuits has provided fundamental knowledge of the subject to all students Each chapter focuses on the core concepts and clearly elucidate the fundamental principles methods and circuits involved in electronics **Basic Electrical and Electronics Engineering** R. K. Rajput, 2012 **Basic Electronics Engineering** Satya Sai Srikant, Prakash Kumar Chaturvedi, 2020-04-27 This book is primarily designed to serve as a textbook for undergraduate students of electrical electronics and computer engineering but can also be used for primer courses across other disciplines of engineering and related sciences The book covers all the basic aspects of electronics engineering from electronic materials to devices and then to basic electronic circuits The book can be used for freshman first year and sophomore second year courses in undergraduate engineering It can also be used as a supplement or primer for more advanced courses in electronic circuit design The book uses a simple narrative style thus simplifying both classroom use and self study Numerical values of dimensions of the devices as well as of data in figures and graphs have been provided to give a real world feel to the device parameters It includes a large number of numerical problems and solved examples to enable students to practice A laboratory manual is included as a supplement with the textbook material for practicals related to the coursework The contents of this book will be useful also for students and enthusiasts interested in learning about basic electronics without the benefit of formal coursework [Proceedings of 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication](#) Anuradha Tomar, Hasmat Malik, Pramod Kumar, Atif Iqbal, 2022-09-17 This book gathers selected papers presented at International Conference on Machine Learning Advances in Computing Renewable Energy and Communication MARC 2021 held in Krishna Engineering College Ghaziabad India during 10 11 December 2021 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications *A Textbook of Basics of C-Language Programming* K Bikshalu, 2018-05-30 This book Basics of C Language Programming has been carefully designed

for students of Electronics and communication engineering Electronics and Telecommunication engineering Electronics and Instrumentation engineering Electrical and Electronics engineering and Computer Engineering

BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS K. Shashidhar,2013-05-31 **BASICS OF ELECTRICAL ENGINEERING AND ELECTRONIC COMPONENTS** is intended to be used as a text book for I Semester Diploma in Electronics and Communication Engineering This book is designed for comprehensively covering all topics relevant to the subject Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education Karnataka This book is divided into eight chapters Chapter 1 Basics of Electricity Chapter 2 Electrostatics Chapter 3 Electromagnetic Induction Chapter 4 AC Fundamentals Chapter 5 AC Circuits Chapter 6 Transformers Chapter 7 Batteries Relays and Motors Chapter 8 Passive Components The text provides detailed explanations and uses numerous easy to follow examples accompanied by diagrams and step by step solutions Illustrative problems are presented in terms of commonly used voltages and current ratings To enhance the utility of the book important points and review questions objective and descriptive type have been included at the end of each chapter Model question papers have been provided to help students prepare better for the semester examinations Multiple choice questions along with answers have been given towards the end of the book for the benefit of students taking up competitive tests It is hoped that this book will be of immense use to teachers and students of Polytechnics Suggestions for improvement in the future editions of this book will be appreciated I wish to express my gratitude to MEI Polytechnic Bangalore for providing me an opportunity to bring out this text book I am grateful to Sri Nitin S Shah M s Sapna Book House Bangalore for publishing this book I am thankful to M s Datalink Bangalore for meticulous processing of the manuscript of this book

Public Sector - Job Opportunities Arshdeep Singh Veer,Mansi Barar,Dilpreet Singh,2020-04-02 In today s era job seekers keep looks for an efficient way to explore the career opportunities and if the question is about government jobs then this matter becomes even more concerned Because Government sector in India is always being the very first choice for employment and career The reason is the luxury reputation job security and high salary of these jobs This book is a complete developed package for job seekers who look their career in the stable government services of India This book will allow them to explore all the public sector opportunities announced by Government of India and will help to learn how to navigate the appropriate process for different government job applications Each chapter in this book pinpoint the complete guidelines for the government jobs in a particular public sector It is not only a path guide for the job seekers to explore the government jobs but it is also a smart tool that will help them to enhance their career in a broadened way Time to time Government of India announces different public sector jobs at central and state level including Civil Services Central and States Public Sector Companies Banks Autonomous Bodies Defence Services Indian Civil Services Public administration services and other organisations So it becomes very difficult for an individual to be aware of about all the jobs and get information about how to explore all those

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Basic Electrical and Electronics Engineering: S.K. Bhattacharya,2011 Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level The book allows students outside electrical and electronics engineering to easily

Basic Electronics BL Theraja,2006-12 Aims of the Book The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study 1 Diploma in Electronics and Communication Engineering ECE 3 year course offered by various Indian and foreign polytechnics and technical institutes like city and guilds of London Institute CGLI 2 B E Elect Comm 4 year course offered by various Engineering Colleges efforts have beenmade to cover the papers Electronics I II and Pulse and Digital Circuits 3 B Sc Elect 3 Year vocationalised course recently introduced by Approach

Basic Electronics Course Norman H. Crowhurst,1987 BASIC ELECTRONICS COURSE 2ND EDITION defines every aspect of electrical behavior and state of the art electronics Highlighted are the essential basics of electronics theory and practice properties of resistance electron flow power calculations and more Questions at the conclusion of each chapter prepare you for the real test should you choose to enter a specialized electronics field

Electrical Engineering 101 Darren Ashby,2009-03-09 Written by an expert electronics engineer who enjoys teaching the practical side of engineering this book covers all the subjects that a beginning EE needs to know intuitive circuit and signal analysis physical equivalents of electrical components proper use of an oscilloscope troubleshooting both digital and analog circuits and much more Even engineers with years in the industry can benefit from the compendium of practical information provided within

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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 **Resources in Education** ,1995-06

Fundamentals of Electronics Book 1: (Electronic Devices and Circuit Applications) Thomas Schubert, Ernest Kim, 2017-02-10 This book Electronic Devices and Circuit Applications is the first of four books of a larger work Fundamentals of Electronics It is comprised of four chapters describing the basic operation of each of the four fundamental building blocks of modern electronics operational amplifiers semiconductor diodes bipolar junction transistors and field effect transistors Attention is focused on the reader obtaining a clear understanding of each of the devices when it is operated in equilibrium Ideas fundamental to the study of electronic circuits are also developed in the book at a basic level to lessen the possibility of misunderstandings at a higher level The difference between linear and non linear operation is explored through the use of a variety of circuit examples including amplifiers constructed with operational amplifiers as the fundamental component and elementary digital logic gates constructed with various transistor types Basic Electronics Engineering K Lal Kishor, 2014-10-31 This course is the basic foundation course to understand the principles of Electronic Devices and Basic Circuits Though number of books are published in this area there is need for a book which explains clearly the principles and is helpful to students as well as teachers Though many students of electronic engineering go through this course still many students somehow fail to appreciate the essence of the subject The book is written in a simple lucid language along with derivation of equations and supported by numerous solved problems Salient Features Specifications of different devices colour codes typical values of resistor and capacitors circuit symbols unit conversion factors are provided Objective Type Questions and Conceptual Questions with Answers are provided at the end of each chapter

Fundamentals Of Electrical And Electronics Engineering T. Thyagarajan, 2001 **A Basic Collection for Scientific and Technical Libraries** Effie B. Lunsford, Theodore J. Kopkin, 1971 **Official Gazette** Philippines, 1985

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