
Electrical Circuit Analysis By Bakshi

Getting the books **Electrical Circuit Analysis By Bakshi** now is not type of challenging means. You could not abandoned going subsequent to books collection or library or borrowing from your associates to contact them. This is an entirely easy means to specifically get lead by on-line. This online notice **Electrical Circuit Analysis By Bakshi** can be one of the options to accompany you next having supplementary time.

It will not waste your time. say you will me, the e-book will no question melody you further concern to read. Just invest little epoch to edit this on-line broadcast **Electrical Circuit Analysis By Bakshi** as without difficulty as review them wherever you are now.



Network Analysis And Synthesis Springer Nature

This collection of selected papers presented at the 11th

International Conference on Scientific Computing in Electrical Engineering (SCEE), held in St. Wolfgang, Austria, in 2016, showcases the state of the art in SCEE. The aim of the SCEE 2016 conference was to bring together scientists from academia and industry, mathematicians,

electrical engineers, computer scientists, and physicists, and to promote intensive discussions on industrially relevant mathematical problems, with an emphasis on the modeling and numerical simulation of electronic circuits and devices, electromagnetic fields, and coupled problems. The focus in methodology was on model order reduction and uncertainty quantification. This extensive reference work is divided into six parts:

Computational Electromagnetics, Circuit and Device Modeling and Simulation, Coupled Problems and Multi-Scale Approaches in Space and Time, Mathematical and Computational Methods Including Uncertainty

Quantification, Model Order Reduction, and Industrial Applications. Each part starts with a general introduction, followed by the respective contributions. This book will appeal to mathematicians and electrical engineers. Further, it introduces algorithm and program developers to recent advances in the other fields, while industry experts will be introduced to new programming tools and mathematical methods.

Electric Circuit

Analysis Springer

This book presents a comprehensive and in-depth analysis of electrical circuit theory in biomedical engineering, ideally suited as textbook for a graduate course. It

contains methods and theory, but the topical focus is placed on practical applications of circuit theory, including problems, solutions and case studies. The target audience comprises graduate students and researchers and experts in electrical engineering who intend to embark on biomedical applications.

Electrical Circuits in Biomedical Engineering Technical Publications

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore

essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, demultiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book

on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Electronic Circuits II Springer

Taking up where Volume 1 finishes, this book covers the BTEC module Electrical and Electronic Principles N (86/239) which form a foundation in electricity for so many National Certificate and Diploma engineering students. The aim of the book is to provide a complete set of course notes, freeing the student to spend time learning and doing.

Basic Electrical Engineering

Technical Publications

Basic Concepts Practical sources, source transformation, network reduction using star-delta transformation. Loop and node analysis with linearly dependent and independent sources for DC and AC networks. Network Topology Graph of network, Concept of a tree and co-tree, incidence matrix, tieset and cut-set schedules, formulation of equilibrium equations in matrix

from, solution of resistive networks, principles of duality. Network Theorems Superposition, Reciprocity, Thevenin's, Norton's, Maximum power transfer and Millman's theorems. Resonant Circuits Series and parallel resonance, frequency-response of series and parallel circuits, Q-factor, Bandwidth. Transient Behaviour and Initial Conditions Behaviour of circuit element under switching condition and their representation, evaluation of initial and final conditions in RL, RC and RLC circuits for AC and DC excitations. Laplace Transformation and Applications Solution of networks, step, ramp and impulse functions, waveform synthesis, initial and final values, convolution integral, Transformed networks and their solution. Two Port Network Parameters Short circuit admittance parameters, open circuit impedance parameters, transmission parameters, hybrid parameters, relationship between parameters sets.

Electrical Circuit Theory and Technology

Technical Publications

Single Stage Amplifiers

Review, Small signal

analysis of junction

transistor, Frequency

response of common emitter

amplifier, Common base

amplifier, Common

collector amplifier, JFET

amplifiers, Common drain

(CD) amplifier, Common

gate amplifier, gain band-

width product. Multistage

Amplifiers Multi stage

amplifiers, Methods of inter

stage coupling, n-stage

cascaded amplifier,

Equivalent circuits, Miller's

theorem, Frequency effects,

Amplifier analysis, High

input resistance transistor

circuits, Cascode - transistor

configuration, CE-CC

amplifiers, Two stage RC

coupled JFET amplifier (in

common source (CS)

configuration), Difference

amplifier. High Frequency

Transistor Circuits Transistor

at high frequencies, Hybrid-

common emitter,

Transconductance model,

Determination of hybrid-

conductances, Variation of

Hybrid parameters

with $|I_C|$, $|V_{CE}|$ and

temperature. The parameters

f_T , expression for f , Current

gain with resistance load, CE

short circuit current gain,

Hybrid - (π) parameters,

Measurement of f_T variation

of Hybrid- parameters with

Voltage, Current and

temperature, Design of high

frequency amplifier. Power

Amplifiers Class A power

amplifier, Maximum value

of efficiency of class a

amplifier, Transformer

coupled amplifier,

Transformer coupled audio

amplifier, Push pull

amplifier, Complimentary

symmetry circuits
(Transformer less class B power amplifier), Phase inverters, Class D operation, Class S operation, Heat sinks. Tuned Amplifiers - I Single tuned capacitive coupled amplifier, Tapped single tuned capacitance coupled amplifier, Single tuned transformer coupled or inductively coupled amplifier, CE double tuned amplifier, Application of tuned amplifiers. Tuned Amplifiers - II Stagger tuning, Stability considerations, Tuned Class B and Class C amplifiers, Wideband amplifiers, Tuned amplifiers. Voltage Regulators Terminology, Basic regulator circuit, Short circuit protection, Current limiting, Specifications of voltage regulator circuits, Voltage multipliers. Switching and IC

Voltage Regulators IC 723 voltage regulators and three terminal IC regulators, DC to DC converter, Switching regulators, Voltage Multipliers, UPS, SMPS.
Basic Electrical & Instrumentation Engineering Newnes
Diode Circuits Diode resistance, Diode equivalent circuits, Transition and diffusion capacitance, Reverse recovery time, Load line analysis, Rectifiers, Clippers and clampers. Transistor Biasing Operating point, Fixed bias circuits, Emitter stabilized biased circuits, Voltage divider biased, D.C. bias with voltage feedback, Miscellaneous bias configurations, Design operations, Transistor switching networks, PNP transistors, Bias stabilization. Transistor at

Low FrequenciesBJT transistor modeling, Hybrid equivalent model, CE fixed bias configuration, Voltage divider bias, Emitter follower, CB configuration, Collector feedback configuration, Hybrid equivalent model.Transistor Frequency ResponseGeneral frequency considerations, Low frequency response, Miller effect capacitance, High frequency response, Multistage frequency effects.General Amplifiers Cascade connections, Cascode connections, Darlington connections.Feedback Amplifier Feedback concept, Feedback connections type, Practical feedback circuits.Power AmplifiersDefinitions and amplifier types, Series fed class A amplifier, Transformer coupled class A

amplifiers, Class B amplifier operations, Class B amplifier circuits, Amplifier distortion s.OscillatorsOscillator operation, Phase shift oscillator, Wienbridge oscillator, Tuned oscillator circuits,, Crystal oscillator.FET AmplifiersFET small signal model, Biasing of FET, Common drain common gate configurations, MOSFETs, FET amplifier networks.
Theory, Analysis and Design
Technical Publications
This fully updated textbook provides complete coverage of electrical circuits and introduces students to the field of energy conversion technologies, analysis and design. Chapters are designed to equip students with necessary background material in such topics as devices, switching circuit analysis techniques, converter types, and methods of conversion. The book contains a large number of examples, exercises, and problems to help

enforce the material presented in each chapter. A detailed discussion of resonant and softswitching dc-to-dc converters is included along with the addition of new chapters covering digital control, non-linear control, and micro-inverters for power electronics applications. Designed for senior undergraduate and graduate electrical engineering students, this book provides students with the ability to analyze and design power electronic circuits used in various industrial applications.

Analog Electronic Circuits

Technical Publications

The book covers all the aspects of Basic Electrical and Instrumentation Engineering for undergraduate course. Various concepts of three phase a.c. circuit analysis with balanced and unbalanced loads, tariff and power factor improvement, single phase and three phase transformers, d.c. machines, single phase and three phase induction motors, alternators, synchronous motors, basics of measuring instruments and transducers are explained in the

book with the help of comprehensive approach. The book starts with explaining the three phase a.c. circuit analysis with balanced and unbalanced loads, concept of transmission, distribution and power system protection. The discussion of tariff and power factor improvement is also added in support. The book further explains single phase and three phase transformers. Then book provides the detailed discussion of d.c. generators and motors. The book also includes the discussion of three phase and single phase induction motors, synchronous generators, synchronous motors and other motors such as stepper motor, brushless d.c. motor and universal motor. The book covers the classification and basic requirements of a measuring instrument. Then the book explains the static and dynamic characteristics and types of errors in measuring instruments. The book provides in depth discussion of electronic multimeter and oscilloscope. The book teaches the details of various types of

transducers like resistive, inductive, capacitive, thermoelectric, piezoelectric, photoelectric and Hall effect transducers. The book uses plain, simple and lucid language to explain each topic. Each chapter gives the conceptual knowledge about the topic dividing it in the various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

ELECTRICAL CIRCUIT ANALYSIS Technical

Publications

Electrical Circuit

Analysis Technical Publications

Digital Electronics Springer

The book covers all the aspects of theory, analysis, and design of Electronic Circuits for the undergraduate course. The concepts of biasing of BJT, JFET, MOSFET, along with the

analysis of BJT, FET, and MOSFET amplifiers, are explained comprehensively. The frequency response of amplifiers is explained in support. The detailed essential of rectifiers, filters, and power supplies are also incorporated in the book. The book covers biasing of BJT, JFET, and MOSFET and analysis of basic BJT, JFET, and MOSFET amplifiers with Hybrid ? equivalent circuits. It also includes the Darlington amplifier discussion, amplifiers using Bootstrap technique, multistage amplifiers, differential amplifiers, and BiCMOS cascade amplifier. The in-depth analysis of the frequency response of various amplifiers is also included in the book. Finally, the book covers all the aspects of rectifiers, types of filters, linear regulators, power supplies, and switching regulators. The book uses straightforward and lucid language to explain each topic.

The book provides the logical method of describing the various complicated issues and stepwise methods to make understanding easy. The variety of solved examples is the feature of this book. The book explains the subject's philosophy, which makes understanding the concepts evident and makes the subject more interesting.

Electronic Measurements and Instrumentation

Technical Publications

The book covers all the aspects of Network Analysis for undergraduate course.

The book provides comprehensive coverage of circuit analysis and simplification techniques, coupled circuits, network theorems, transient analysis, Laplace transform, network functions, two port network parameters, network topology and network synthesis with the help of

large number of solved problems. The book starts with explaining the various circuit variables, elements and sources. Then it explains different network simplification techniques including mesh analysis, node analysis and source shifting. The basics of coupled circuits and dot conventions are also explained in support. The book covers the application of various network theorems to d.c. and a.c. circuits. The importance of initial conditions and transient analysis of various networks is also explained in the book. The Laplace transform plays an important role in the network analysis. The chapter on Laplace transform includes properties of Laplace transform and its application in the network analysis. The book includes

the discussion of network functions of one and two port networks. The book covers the various aspects of two port network parameters along with the conditions of symmetry and reciprocity. It also derives the interrelationships between the two port network parameters. The book incorporates the discussion of network topology. Finally the book covers the fundamentals of network synthesis and synthesis of LC, RC and RL networks. The book uses plain and lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book. The book explains the

philosophy of the subject which makes the understanding of the subject very clear and makes the subject more interesting. The students have to omit nothing and possibly have to cover nothing more. Technical Publications The book covers all the aspects of theory, analysis, and design of Electronic Circuits for the undergraduate course. The concepts of feedback amplifiers and oscillators, tuned amplifiers, wave shaping and multivibrator circuits, power amplifiers, and DC converters are explained in a comprehensive manner. The former part of the book focuses on the fundamental concepts of feedback amplifiers and oscillators. It explains the analysis of series-shunt, series-series, shunt-shunt, and shunt-series feedback amplifiers, stability

and frequency compensation in feedback amplifiers. The concepts of the Barkhausen criterion for oscillations and the detailed analysis of various oscillator circuits including phase shift, Wien bridge, Hartley, Colpitt's, Clapp, ring, and crystal oscillators are included in the book. The oscillator amplitude stabilization is explained in support. Then the book focuses on the fundamental concept of tuned amplifiers. It explains topics such as coil losses, unloaded and loaded Q of tank circuits, analysis of single and double tuned amplifiers, the effect of cascading single tuned and double tuned amplifiers on bandwidth, stagger tuned amplifiers, stability of tuned amplifiers, and neutralization methods. The later part of the book incorporates the detailed analysis of various wave shaping circuits, including high pass and low pass RC and RL

circuits, clipper and clamper circuits, bistable, monostable, and astable multivibrator circuits. The discussion of Schmitt trigger circuits and UJT is also included in the book. Finally, the book explains the class A, B, and C types of power amplifiers along with the discussion of the elimination of cross-over distortion. The book also covers the concepts of power amplifiers using power MOSFET and various types of d.c. to d.c. converters. The book uses plain and lucid language to explain each topic. The variety of solved examples is the feature of this book. The book explains the philosophy of the subject, which makes the understanding of the concepts very clear and makes the subject more interesting.

Network Analysis McGraw-Hill Education

The importance of electric motors is well known in the various engineering fields.

The book provides comprehensive coverage of the various types of electric motors including d.c. motors, three phase and single phase induction motors, synchronous motors, universal motor, a.c. servomotor, linear induction motor and stepper motors. The book covers all the details of d.c. motors including torque equation, back e.m.f., characteristics, types of starters, speed control methods and applications. The book also covers the various testing methods of d.c. motors such as Swinburne's test, brake test, retardation test, field test and Hopkinson's test. The book further explains the three phase induction motors in detail. It includes the production of rotating magnetic field, construction, working, effect of slip,

torque equation, torque ratios, torque-slip characteristics, losses, power flow, equivalent circuit, effect of harmonics on the performance, circle diagram and applications. This chapter also includes the discussion of induction generator. The book teaches the various starting methods and speed control methods of three phase induction motors. The book incorporates the explanation of various single phase induction motors. The chapter on synchronous motor provides the detailed discussion of construction, working principle, behavior on load, analysis of phasor diagram, Vee and Inverted Vee curves, hunting, synchronous condenser and applications. The book also teaches the various special machines such as single

phase commutator motors, universal motor, a.c. servomotor, linear induction motor and stepper motors. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Network Analysis Technical Publications
Circuit Elements & Kirchoff's Laws Lumped & Discrete Circuit Elements, Characterization of

Resistors, Capacitors & Inductors in Terms of Their Livearity & Time Dependence Nature, Characteristics of Independent & Dependent Sources, KCL & KVL for Circuits with Dependent & Independent. Sources, Terminal Characteristics of Active Circuit Elements like Diodes, OPAMPS & transistors, Dot Convention for Coupled Inductor. Time Domain Analysis of Circuits Initial and Final Conditions on Network Elements, Differential Equations & integrodifferential Equations of First-and Second Order System, Step and Impulse response of First and Second-Order System, Zero-Input & Zero-State Response. Sinusoidal Steady-State Analysis Difference of Sinusoidal Steady^ State,

Difference between a Phasor and a Vector. Concept of Impedance and Admittance, Node & Mesh Analysis in the Sinusoidal Steady State, Network Theorems Like Superposition, Thevenin's & Superposition in the Sinusoidal Steady State, Present Circuits (both Series & Parallel) Coupling Elements and Coupled Circuits Coupled Inductors & Their Characterisation, Co-efficient of Coupling, Multiwinding Inductors & their Inductance Matrix, Double Tuned Circuits. Transform Domain Analysis of Networks The philosophy of Transform Methods, The Laplace Transform, Use of Laplace Transform for the Solution of Integrals. Differential Equations, Transforms of Wave Forms Synthesized with Step, Ramp, Gate and Sinusoidal Functions, The transformed Network, Network Theorems (thevenin, Norton, Maximum power. Superposition & Reciprocity) in transform Domain. Network Functions The concept of complex frequency, Concept of Ports, Network Functions of one Port & Two ports, Calculation of Network Functions for General Networks, Pole & Zeros of Network Functions of Different Kinds, Time Domain Behaviour from Pole-Zero plots. Two Port Networks Relationship of Two-port Variables, Short Circuit Admittance & Parameters, Open Circuit Impedance, Transmission Parameters, Hybrid Parameters, Relationship between Parameters Sets, Interconnection between Two-ports, Terminated Two-

ports. Fourier Series & Fourier Transforms Concept of Signal Spectra, Fourier Series Co-efficients of a periodic Wave-form, Waveform Symmetrics, Exponential Form of Fourier Series, Steady State Response to Periodic Signals, Fourier integral & transform. Properties of Fourier Transform, Applications in Network analysis. Network Synthesis of One-port Networks with Two Kind of Elements Concept of Positive real functions, Hurwitz polynomials, Properties of L-C, RL & RC immittance function, Synthesis of RC, RL & LC immittance functions in cauer, Foster & mixed canonical form. Topological Analysis of electrical Networks Concept of Network Graphs, Incidence

matrix. Cut-sets and loops. Fundamental cut-set and loop matrices, Dual graphs. Cut-set and loop Analysis. *Network Theory and Filter Design* Technical Publications Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked

through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

Practice Problems, Methods, and Solutions Technical

Publications

This book on “Electronic Circuit Analysis” explores the concepts of Circuit Analysis in a simple and easy-to-understand manner. This book is designed specifically to cater to the needs of fourth semester students of B.Tech in Electronics and Communications Engineering, JNTU. Written in a lucid language, this book offers a crisp presentation of all the topics supported by adequate examples. A simplified approach to enable ease of understanding of the concepts, adequate illustrations, examples and practice problems have also been provided in all the chapters. Salient Features: ? Comprehensive coverage with lucid presentation style ? Rich exam-oriented

pedagogy ? Solved
Numerical Examples within
chapters ? Unsolved Review
Questions ? Multi-choice
Questions

Electronic Circuit

Analysis Technical
Publications

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’

Routledge

The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course

Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book.

The book provides the discussion of Poisson's and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good

conductors. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Circuit Analysis and Design

John Wiley & Sons

The importance of transformers and generators

is well known in the various engineering fields. The book provides comprehensive coverage of the various types of transformers, d.c. generators and synchronous generators (alternators). The book starts with the brief review of single phase transformer. It continues to discuss no load and on load performance of transformers, phasor diagrams, equivalent circuit, voltage regulation and all day efficiency of transformer. The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book. The chapter on three phase transformer provides the detailed discussion of construction, three phase transformer connections and phasor groups. The book also explains parallel

operation of transformers, tap changing transformer, autotransformers, cooling of transformers and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics and applications. The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction, winding details, e.m.f. equation and effect of harmonics on induced e.m.f. The book then explains the concept of armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise

explanation and simple techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.