

Electronic Circuits Godse Bakshi

Electrical Circuit Analysis Uday A. Bakshi, Late Ajay V. Bakshi. The importance of Electrical Circuit Analysis is well known in the various engineering fields. The book provides comprehensive coverage of mesh and node analysis, various network theorems, analysis of first and second order networks using time and Laplace domain, steady state analysis of a.c. circuits, coupled circuits and dot conventions, network functions, resonance and two port network parameters. The book starts with explaining the network simplification techniques including mesh analysis, node analysis and source shifting. Then the book explains the various network theorems and concept of duality. The book also covers the solution of first and second order networks in time domain. The sinusoidal steady state analysis of electrical circuits is also explained in the book. The book incorporates the discussion of coupled circuits and dot conventions. 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 incorporates the detailed discussion of resonant circuits. 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 uses plain and lucid language to explain each topic. Each chapter gives the conceptual knowledge about the topic dividing it in various sections and subsections. 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.

Electronic Circuits - i U. A. Bakshi.2005

Switchgear & Protection Uday A. Bakshi,Dr. Mayuresh V. Bakshi.2020-11-01 The knowledge of switchgear and apparatus protection plays an important role in the power system. The book is structured to cover the key aspects of the course Switchgear & Protection for undergraduate students. The book starts with the discussion of basics of protective relaying. The book includes comprehensive coverage of faults and analysis of symmetrical and unsymmetrical faults. The book explains the protection against overvoltage, lightning arresters and power system earthing. The book covers the characteristics of various types of relays such as electromagnetic relays, induction type relays, directional relays, differential relays, thermal relays, frequency relays and negative sequence relays. The detailed discussion of distance relays and static relays is also included in the book. The book also covers the various possible faults and methods of protection of transformers, generators, motors, busbars and transmission lines. The book further explains the theory of circuit interruption and various arc interruption methods. Finally, the book incorporates various types of circuit breakers, circuit breaker ratings and testing of circuit breakers. 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. 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.

Digital Systems Design .

Electronic Circuits Atul P. Godse, Uday A. Bakshi. 2014

Electronic Devices And Circuits - II Atul P. Godse. 2009 Multistage low frequency Amplifiers (BJT/FET) Necessity of cascading LF small signal amplifiers in various configurations, techniques of improving input impedance of CC stage, Darlington connection, Bootstrapping, CE - CE cascade, CE - CB cascade arrangement, Effect of cascading on frequency response of single stage and cascaded amplifiers, square wave testing or step response of AF amplifier. LF Amplifiers with negative Feedback Block schematic of amplifier with negative feedback, gain with feedback, consequences of introducing negative feedback in small signal and multistage amplifiers, classification of amplifiers in view of feedback concept, i.e. A_i , A_v , R_m , G_m - Types of sampling and mixing - Ways of introducing negative feedback in amplifiers i.e. voltage series, current series, voltage shunt, current shunt, effects of negative feedback on R_i and R_o in all four types, Methodology of feedback amplifier analysis. Large Signal (Power) AF Amplifiers Classification of amplifiers in Class A, B, C, etc. concept of large signal amplification, total harmonic distortion, push pull configuration, efficiency of power conversion, CE transformer coupled power amplifier, complementary symmetry CC power amplifier in single dual supply version. Efficiency and distortion analysis of those configurations (Graphical techniques to calculate harmonic distortion), Crossover distortion, SOA and its limits, secondary breakdown, Heatsink, its standard shapes and sizes, Thermal calculations and resistances. Oscillators Employing positive feedback in amplifier, problems of instability, Barkhausen criteria for sinusoidal oscillators, derivation and analysis of transistorised RC phase shift/Wien bridge oscillators for frequency expressions and gain requirements. LC oscillators - Hartley, Colpitts, Clapp, Crystal (Miller & Pierce), UJT relaxation oscillator, gain & frequency stability Operational

Amplifiers Internal block schematic of monolithic op-amp IC, Analysis of transistorised difference amplifier stage, Method of improving its CMRR, Definitions and Measurements of op-amp parameters like input offset voltage and current, bias current, CMRR, PSRR, open loop gain, etc. Concept of dc amplification, inability of op-amp to work as a linear small signal amplifier in open loop, op-amp with close loop negative feedback, close loop gain, and frequency response of op-amp, linear applications like inverting and non-inverting amplifier, summing, difference. RF/HF Amplifiers Hybrid - n small signal model of BJT, its relation with h-parameters, definitions of f_a , f_p , f_T . Calculation of A_i and A_v with finite load and source resistances for CE stage. Gain bandwidth product, Tuned load, loaded and unloaded Q, insertion loss, single tuned amplifiers, staggered tuning, Cascade configuration for HF amplification. Voltage Regulators Zener diode as a shunt regulator, emitter follower regulator, transistorised series feedback type regulator, Comparisons of above discrete regulators on the basis of S_v , S_t and r_o , CV/CC modes, over voltage/over current protection circuits, internal block diagram, pin diagram and specification of IC regulator 723, low/high positive voltage, negative and floating regulators using IC 723, Safe operating area of IC regulators. Considerations of PCB Design, fabrication and assembly Mechanical dimensions of devices and components used in electronic circuit and their dependencies on package of device, rules of preparing layout and drawing artwork, fabrication process of single sided PCB board/DSPTH, various copper clad laminates, composition of solder metal, etc.

Electronics Devices and Circuits Balwinder Singh, Ashish Dixit, Balwant Raj. 2009-08

Electric Motors Uday A. Bakshi, Dr. Mayuresh V. Bakshi. 2020-11-01 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.

Linear Integrated Circuits Uday A. Bakshi, Atul P. Godse, Ajav V. Bakshi. 2014

Elements Of Electronics Engineering U.A. Bakshi A.P. Godse. 2008 Semiconductor Diodes

Classification of materials as insulator, Conductors and semiconductors, Types of semiconductors-intrinsic and extrinsic semiconductors, P-type and N-type, Majority and minority charge carriers, Drift current. The PN junction, Formation of depletion layer, Junction voltage, Effect of temperature on junction voltage, Forward and reverse biased PN junction. Reverse saturation current, V-I characteristics. Junction breakdown, Zener and avalanche breakdown, Junction capacitance and equivalent circuit. PN junction diode, V-I characteristics, Diode parameters, Applications, Diode ratings or specifications, Ideal diode and real diode, Introduction to zener diode. Bipolar Junction Transistor Introduction, Emitter, Base and collector of transistor, Transistor construction and biasing. Transistor circuit configurations, Common base, Common emitter, Common collector, Leakage current and thermal runaway. Field Effect Transistor Introduction, Symbol, Classification of FET, Basic construction of JFET, Open operation and characteristics, MOSFET, Depletion and enhancement type MOSFET, Construction, Working. FET applications. Opto and Power Devices Introduction, Wavelength and frequency, Spectral response of human eye, LED, Photo emissive devices, Photo diode. UJT, SCR, TRIAC, DIAC, SCSConstruction, Parameters, Characteristics, Operation and applications. Operational Amplifiers and Power Supplies Ideal operational amplifier. Inverting and non-inverting amplifier, Difference amplifier. Ground concept, Summing amplifier, Voltage follower. DC Power Supplies Introduction, Unregulated and regulated power supply, Rectifiers, Regulation, Zener diode shunt regulator, Transistor series voltage regulator. Voltage multipliers, Complete power supply. Cathode Ray Oscilloscope Introduction, Cathode ray tube, Theory and construction, Applications. Electronic Instruments Electronic voltmeters, Differential amplifiers, DC voltmeters, Electronic multimeters. Logic Circuits Binary numbers, Conversion of decimal numbers to binary numbers. HEX and OCTAL numbers, Conversion to binary form, AND, OR, NOR,

NAND and all logic gates, Symbols and truth table each case.

Basic Electronics A.p.godse.1959

Solid State Devices and Circuits Abhishek Yadav.2008

Logic Design D.A.Godse A.P.Godse.2005 Boolean Algebra and Combinational Networks Principle of Duality; Boolean Formulas and Functions : Normal Formulas; Canonical Formulas : Minterm Canonical Formulas, m-Notation; Manipulations of Boolean Formulas: Equation Complementation, Expansion about a Variable, Equation Simplification, The Reduction Theorems, Minterm Canonical Formulas, Maxterm Canonical Formulas, Complements of Canonical Formulas; Gates and Combinational Networks : Gates, Combinational Networks, Analysis Procedure, Synthesis Procedure, A Logic Design Example; Incomplete Boolean Functions and Don't Care Conditions : Describing Incomplete Boolean Functions, Don't Care Conditions in Logic Design; Additional Boolean Operations and Gates : The NAND-Functions, The NOR-Functions, Universal Gates, NAND-Gate Realizations, NOR-Gate Realizations, The Exclusive-OR-Function, The Exclusive-NOR Function.Simplification of Boolean Expressions Formulation of the Simplification Problem : Criteria of Minimality, The Simplification Problem; Prime Implicants and Irredundant Disjunctive Expressions : Implies, Subsumes, Implicants and Prime Implicants, Irredundant Disjunctive Normal Formulas; Prime Implicants and Irredundant Conjunctive Expressions; Karnaugh Maps : One-Variable and Two-Variable Maps, Three-Variable and Four-Variable Maps, Karnaugh Maps and Canonical Formulas, Product and Sum Term Representations on Karnaugh Maps; Using Karnaugh Maps to Obtain Minimal Expressions for Complete Boolean Functions : Prime Implicants and Karnaugh Maps, Essential Prime Implicants, Minimal Sums, Minimal Products; Minimal Expressions of Incomplete Boolean Functions : Minimal Sums, Minimal Products; The Quine-McCluskey Method

of Generating Prime Implicants and Prime Implicates : Prime Implicants and the Quine - McCluskey Method, Algorithm for Generating Prime Implicants, Prime Implicates and the Quine - McCluskey Method; Prime Implicant/Prime-Implicate Tables and Irredundant Expressions; Petrick's Method of Determining Irredundant Expressions, Prime-Implicate Tables and Irredundant Conjunctive Normal Formulas; Prime Implicant/Prime-Implicate Table Reductions : Essential Prime Implicants, Column and Row Reductions, A Prime - Implicant Selection Procedure; Decimal Method for Obtaining Prime Implicants; Map Entered Variables.Logic Levels and FamiliesLogic Levels, Integration Levels; Output Switching Times, The Propagation Delay, Fan-out and Fan-in, Extension to Other Logic Gates, Logic Cascades.Transistor-Transistor logic; Wired logic, TTL with Totem-Pole output, Thee-state output TTL, Schottky TTL; The MOS Field-Effect-Transistor : Operation of n-Channel, Enhancement-Type MOSFET, The n-Channel Depletion-Type MOSFET, The p-channel MOSFETs, Circuit Symbols, The MOSFET as a Resistor; NMOS and PMOS Logic : The NMOS Inverters, NMOS NOR-Gate, NMOS NAND-Gate, PMOS Logic, performance; The CMOS Inverter, CMOS NOR-Gate, CMOS NAND-Gate, performance, Comparison of the above logic families.Logic Design with MSI Components and Programmable Logic DevicesBinary Adders and Subtractors; Binary Subtractors, Carry Lookahead Adders; Decimal Adders; Comparators; Decoders; Logic Design Using Decoders; Decoders with an Enable Input; Encoders; Multiplexers; Logic Design with Multiplexers; Programmable Logic Devices (PLDs); PLD Notation; Programmable Read-Only Memories (PROMs); Programmable Logic Arrays (PLAs); Programmable Array Logic (PAL) Devices.Flip-Flops and Simple Flip-Flop ApplicationsThe Basic Bistable Element; Latches; The SR Latch, An Application of the SR Latch : A Switch Debouncer, The SR Latch, The Gated SR Latch, The Gated D Latch; Master-Slave Flip-Flops (Pulse-Triggered Flip-Flops); The Master-Slave SR Flip-Flop; The Master-Slave JK Flip-

Flop; Edge-Triggered Flip-Flop; The Positive Edge-Triggered D Flip-Flop; Negative Edge-Triggered D flip-flops; Characteristic Equations; Registers; Counters : Binary Ripple Counters, Synchronous Binary Counters, Counters Based on Shift Registers ; Design of Synchronous Counters : Design of a Synchronous Mod-6 Counter Using Clocked JK Flip-Flops, Design of a Synchronous Mod-6 Counter Using Clocked D,T or SR Flip-Flops. Synchronous Sequential Networks Structure and Operation of Clocked Synchronous Sequential Networks; Analysis of Clocked Synchronous Sequential Networks; Excitation and Output Expressions, Transition Equations, Transition Tables, Excitation Tables, State Tables, State Diagrams Network Terminal Behavior.

Electromagnetic Field Theory Uday A. Bakshi, Late Ajay V. Bakshi. 2020-11-01 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.

Electron Devices A.V.Bakshi U.A.Bakshi A.P.Godse.2008 Passive Circuit Components and Electron Ballistics
Passive circuit components : Resistors : Fixed and variable - Tolerance - Colour coding ; Capacitors : Fixed and variable - Dissipation factor - Characteristics and applications of various types of capacitors; Inductors : Fixed and variable - Energy stored in a magnetic field - Q factor - Mutual coupled coils.
Electron ballistics : Charged particles - Force, Field intensity, potential and energy - Two dimensional motion of electron - Force in magnetic field - Motion in a magnetic field - Parallel and perpendicular electric and magnetic fields - Electrostatic deflection and Magnetic deflection in a Cathode Ray Tube - Principles and applications of CRO.
Semiconductor Diodes and Special Diodes
Semiconductor diodes : Classification of semiconductors - Conductivity of semiconductors - Carrier concentration in intrinsic semiconductor - Mass - Action law - Properties of intrinsic semiconductors - Variation in semiconductor parameters with temperature - Drift and

diffusion currents - Carrier life time - Continuity equation - Theory of PN junction diode - Energy band structure of open circuited PN junction - Quantitative theory of PN diode currents - Diode current equation - Diode resistance - Transition or space charge capacitance - Diffusion capacitance - Effect of temperature of PN junction diodes - Junction diode switching characteristics - Breakdown in PN junction diodes - PN diode applications - Clipper - Clampers. Special diodes : Zener diode - Backward diode - Varactor diode - Step recovery diode - Point-contact diode - Tunnel diode - PIN diodes - Laser diode ; Photoconductive sensors - Photovoltaic sensors - Photoemissive sensors - Light emitters - Liquid Crystal Display (LCD) - Nixie tube - Alphanumeric displays - Optocoupler. Bipolar Junction Transistors and Field Effect Transistors Bipolar Junction Transistors : Construction - Transistor biasing - Operation of NPN transistor - Operation of PNP transistor - Types of configuration - Breakdown in transistors - Ebers-Moll model - Transistor switching times. Field Effect Transistors : Construction of N-channel JFET - Operation of N-channel JFET - Characteristic Parameters of the JFET - Expression for saturation drain current - Slope of the transfer characteristics at IDSS - Comparison of JFET and BJT - Applications of JFET - Metal oxide semiconductor field effect transistor (MOSFET) - Enhancement MOSFET - Depletion MOSFET - Comparison of MOSFET with JFET - Handling precautions for MOSFET - Comparison of N-with P-channel MOSFETs - Comparison of N-with P-Channel. Integrated Circuit Fabrication Introduction to mass technology - Manufacturing process - Construction of a bipolar transistor - Monolithic diodes - Integrated resistors - Monolithic capacitors - Inductors - Thin and thick film technology - Definition of LSI, MSI, VLSI circuits - VLSI Design rules and layout technique - Introduction to fast VLSI circuits. Metal Semiconductor Contacts and Power Control Devices Metal semiconductor contacts : Energy band diagram of metal semiconductor junction - Schottky diode and ohmic contacts -

GTO. Power control devices : PNP diode (Shockley diode) - SCR - Thyristor ratings - LASCR (Light Activated SCR) - TRIAC - DIAC - Characteristics and equivalent circuit of UJT - Intrinsic stand-off ratio.

Electronic Circuits - Ii Atul P. Godse, Uday A. Bakshi. 2010

Analog Electronic Circuits A. P. Godse. 2009 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 Frequencies BJT transistor modeling, Hybrid equivalent model, CE fixed bias configuration, Voltage divider bias, Emitter follower, CB configuration, Collector feedback configuration, Hybrid equivalent model. Transistor Frequency Response General 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 Amplifiers Definitions and amplifier types, Series fed class A amplifier, Transformer coupled class A amplifiers, Class B amplifier operations, Class B amplifier circuits, Amplifier distortions. Oscillators Oscillator operation, Phase shift oscillator, Wienbridge oscillator, Tuned oscillator circuits, Crystal oscillator. FET Amplifiers FET small signal model, Biasing of FET, Common drain common gate configurations, MOSFETs, FET amplifier networks.

Electric Circuit Analysis Atul P. Godse, Uday A. Bakshi. 2013

Electronic Circuit Analysis Uday A. Bakshi. 2009 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.

Signals & System Analysis Dr. J. S. Chitode, Uday A. Bakshi. 2020-11-01 The book is written for an undergraduate course on the Signals and Systems. It provides comprehensive explanation of continuous time signals and systems, analogous systems, Fourier transform, Laplace transform, state variable analysis and z-transform analysis of systems. The book starts with the various types of signals and operations on signals. It explains the classification of continuous time signals and systems. Then it includes the discussion of analogous systems. The book provides detailed discussion of Fourier transform representation, properties of Fourier transform and its applications to network analysis. The book also covers the Laplace transform, its properties and network analysis using Laplace transform with and without initial conditions. The book provides the detailed explanation of modern approach of system analysis called the state variable analysis. It includes various methods of state space representation of systems, finding the state transition matrix and solution of state equation. The discussion of network topology is also included in the book. The chapter on z-transform includes the properties of ROC, properties of z-transform, inverse z-transform, z-transform analysis of LTI systems and pulse transfer function. The state space representation of discrete systems is also incorporated in the book. The book uses plain, simple 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 concepts very clear and makes the subject more interesting.

Electronic Devices and Circuits Jacob Millman, Christos C. Halkias. 1976

Electrical Machines - I Uday A. Bakshi, Dr. Mayuresh V. Bakshi. 2020-11-01 The importance of various electrical machines is well known in the various engineering fields. The book provides

comprehensive coverage of the magnetic circuits, magnetic materials, single and three phase transformers and d.c. machines. The book is structured to cover the key aspects of the course Electrical Machines - I. The book starts with the explanation of basics of magnetic circuits, concepts of self and mutual inductances and important magnetic materials. Then it explains the fundamentals of single phase transformers including the construction, phasor diagram, equivalent circuit, losses, efficiency, methods of cooling, parallel operation and autotransformer. The chapter on three phase transformer provides the detailed discussion of construction, connections, phasor groups, parallel operation, tap changing transformer and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems. Then the book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics, parallel operation and applications. The book also includes the details of d.c. motors such as characteristics, types of starters, speed control methods, electric braking and permanent magnet d.c. motors. Finally, the book covers the various testing methods of d.c. machines including Swinburne's test, brake test, retardation test and Hopkinson's test. 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. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Electron Devices and Circuits Atul. P. Godse,Uday A. Bakshi.2020-11-01 The book covers all the

aspects of theory, analysis, and design of Electron Devices and Circuits for the undergraduate course. The concepts of p-n junction devices, BJT, JFET, MOSFET, electronic devices including UJT, thyristors, IGBT, Amplifier circuits-BJT, JFET and MOSFET amplifiers, multistage and differential amplifiers, feedback amplifiers, and oscillators are explained comprehensively. The book explains various p-n junction devices, including diode, LED, laser diode, Zener diode, and Zener diode regulator. The different types of rectifiers are explained in support. The book covers the construction, operation, and characteristics of BJT, JFET, MOSFET, UJT, Thyristors - SCR, Diac and Triac, and IGBT. It explains the biasing of BJT, JFET, and MOSFET amplifiers, basic BJT, JFET, and MOSFET amplifiers with h-parameters and r-parameters equivalent circuits, multistage amplifiers, differential amplifiers, BiCMOS amplifier, single tuned amplifiers, neutralization methods, power amplifiers, and frequency response. Finally, the book incorporates a detailed discussion of the analysis of the current series, voltage series, current shunt, and voltage shunt feedback amplifiers. The book also includes the discussion of the Barkhausen criterion for oscillations and the detailed analysis of various oscillator circuits, including RC phase shift, Wien bridge, Hartley, Colpitt's, Clapp, and crystal oscillators. 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.

Digital Logic Circuits Atul P. Godse.2007

Electronic Circuits II Atul. P. Godse,Uday A. Bakshi.2020-11-01 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.

Electronic Measurements and Instrumentation Uday A. Bakshi, Late Ajay V. Bakshi. 2020-11-01 The importance of electronic measuring instruments and transducers is well known in the various

engineering fields. The book provides comprehensive coverage of various electronic measuring instruments, transducers, data acquisition system, oscilloscopes and measurement of physical parameters. The book starts with explaining the theory of measurement including characteristics of instruments, classification, statistical analysis and limiting errors. Then the book explains the various analog and digital instruments such as average and true rms responding voltmeters, chopper and sampling voltmeter, types of digital voltmeters, multimeter and ohmmeter. It also includes the discussion of high frequency impedance measurement. The book further explains types of signal generators and various signal analyzers such as wave analyzer, logic analyzer, distortion analyzer and power analyzer. The book teaches various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. The book incorporates the discussion of various types of conventional and special purpose oscilloscopes. The book includes the discussion of time and frequency measurement and types of recorders. The chapter on transducers is dedicated to the detailed discussion of various types of transducers. The book also includes the measurement of various physical parameters such as flow, displacement, velocity, force, pressure and torque. Finally, it incorporates the discussion of data acquisition system. Each chapter gives the conceptual knowledge about the topic dividing it in 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.

Schaum's Outline of Electronic Devices and Circuits, Second Edition Jimmie

Cathey.2002-02-22 This updated version of its internationally popular predecessor provides and introductory problem-solved text for understanding fundamental concepts of electronic devices, their design, and their circuitry. Providing an interface with Pspice, the most widely used program in

electronics, new key features include a new chapter presenting the basics of switched mode power supplies, thirty-one new examples, and twenty-three PS solved problems.

Network Analysis Uday A. Bakshi, Late Ajay V. Bakshi. 2020-12-01 The book covers all the aspects of Network Analysis for undergraduate course. The book provides comprehensive coverage of network analysis and simplification techniques, network theorems, graph theory, transient analysis, filters, attenuators, Laplace transform, network functions and two port network parameters with the help of large number of solved problems. The book starts with explaining the various network simplification techniques including mesh analysis, node analysis and source shifting. The basics of a.c. fundamentals are also explained in support. The book covers the various network theorems. Then the book explains the graph theory, its application in network analysis along with the concept of duality. The transient analysis of various networks is also explained in the book. The book incorporates the detailed discussion of resonant circuits. The book also explains the theory of four terminal networks, filters and attenuators. 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 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.

PSpice for Circuit Theory and Electronic Devices Paul Tobin.2022-05-31 PSpice for Circuit Theory and Electronic Devices is one of a series of five PSpice books and introduces the latest Cadence Orcad PSpice version 10.5 by simulating a range of DC and AC exercises. It is aimed primarily at those wishing to get up to speed with this version but will be of use to high school students, undergraduate students, and of course, lecturers. Circuit theorems are applied to a range of circuits and the calculations by hand after analysis are then compared to the simulated results. The Laplace transform and the s-plane are used to analyze CR and LR circuits where transient signals are involved. Here, the Probe output graphs demonstrate what a great learning tool PSpice is by providing the reader with a visual verification of any theoretical calculations. Series and parallel-tuned resonant circuits are investigated where the difficult concepts of dynamic impedance and selectivity are best understood by sweeping different circuit parameters through a range of values. Obtaining semiconductor device characteristics as a laboratory exercise has fallen out of favour of late, but nevertheless, is still a useful exercise for understanding or modelling semiconductor devices. Inverting and non-inverting operational amplifiers characteristics such as gain-bandwidth are investigated and we will see the dependency of bandwidth on the gain using the performance analysis facility. Power amplifiers are examined where PSpice/Probe demonstrates very nicely the problems of cross-over distortion and other problems associated with power transistors. We examine power supplies and the problems of regulation, ground bounce, and power factor correction. Lastly, we look at MOSFET device characteristics and show how these devices are used to form basic CMOS logic gates such as NAND and NOR gates.

Basic Electrical & Electronics Engineering .2012

Digital IC Applications Atul P. Godse, Dr. Deepali A. Godse. 2021-01-01 The book is written for an undergraduate course on Digital Electronics. The book provides basic concepts, procedures and several relevant examples to help the readers to understand the analysis and design of various digital circuits. The book uses plain and lucid language to explain each topic. A large number of design examples with commercially available SSI and MSI chips is the feature of this book. The book begins with the CMOS, TTL and ECL logic families. It teaches you the analysis and design of combinational and sequential circuits using SSI and MSI chips. It provides in-depth information about multiplexers, de-multiplexers, decoders, encoders, priority encoders, devices for arithmetic operations, multipliers, tri-state devices, comparators, parity circuits, various types of flip-flops, counters and registers. It also covers semiconductor memories and programmable logic devices.

Signals and Systems Dr. J. S. Chitode. 2021-01-01 Analysis of signals is given in first chapter. Types of signals, properties of systems are also presented. Second chapter presents Fourier series analysis. Its properties are also discussed. Fourier transform is given in third chapter, along with its properties. The transmission of signals through linear systems is given in fourth chapter. Realizability and distortion less transmission is also discussed. Fifth chapter discusses, convolution, its properties and impulse response properties of LTI systems. Causality and stability are discussed. Autocorrelation and cross correlation is also given. Energy spectral density and power spectral density along with their properties are also given. Sampling principles and types are given in sixth chapter. Chapter seventh and eighth presents Laplace transforms and z-transforms in detail. Their properties, inversion and applications to LTI systems are analyzed in detail. Relationships among transforms are also given. All the concepts are supported with lot of solved examples.

Control System Engineering Uday A. Bakshi, Varsha U. Bakshi. 2020-11-01 The book is written for an

undergraduate course on the Feedback Control Systems. It provides comprehensive explanation of theory and practice of control system engineering. It elaborates various aspects of time domain and frequency domain analysis and design of control systems. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book starts with explaining the various types of control systems. Then it explains how to obtain the mathematical models of various types of systems such as electrical, mechanical, thermal and liquid level systems. Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view. The book further illustrates the steady state and transient analysis of control systems. The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems. The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems. The book teaches the concept of stability and time domain stability analysis using Routh-Hurwitz method and root locus method. It further explains the fundamentals of frequency domain analysis of the systems including co-relation between time domain and frequency domain. The book gives very simple techniques for stability analysis of the systems in the frequency domain, using Bode plot, Polar plot and Nyquist plot methods. It also explores the concepts of compensation and design of the control systems in time domain and frequency domain. The classical approach loses the importance of initial conditions in

the systems. Thus, the book provides the detailed explanation of modern approach of analysis which is the state variable analysis of the systems including methods of finding the state transition matrix, solution of state equation and the concepts of controllability and observability. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

PULSE AND DIGITAL CIRCUITS A. ANAND KUMAR.2008-02-12 The second edition of this well-received text continues to provide a coherent and comprehensive coverage of Pulse and Digital Circuits, suitable as a textbook for use by undergraduate students pursuing courses in Electrical and Electronics Engineering, Electronics and Communication Engineering, Electronics and Instrumentation Engineering, and Telecommunication Engineering. It presents clear explanations of the operation and analysis of semiconductor pulse circuits. Practical pulse circuit design methods are investigated in detail. The book provides numerous fully worked-out, laboratory-tested examples to give students a solid grounding in the related design concepts. It includes a number of classroom-tested problems to encourage students to apply theory in a logical fashion. Review questions, fill in the blanks, and multiple choice questions offer the students the opportunity to test their understanding of the text material. This text will be also appropriate for self-study by AMIE and IETE students.

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Analog Electronic Circuits A. P. Godse.2009 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 Frequencies BJT transistor modeling, Hybrid equivalent model, CE fixed bias configuration, Voltage divider bias, Emitter follower, CB configuration, Collector feedback configuration, Hybrid equivalent model. Transistor Frequency Response General 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 Amplifiers Definitions and amplifier types, Series fed class A amplifier, Transformer coupled class A amplifiers, Class B amplifier operations, Class B amplifier circuits, Amplifier distortions. Oscillators Oscillator operation, Phase shift oscillator, Wienbridge oscillator, Tuned oscillator circuits,, Crystal oscillator. FET Amplifiers FET small signal model, Biasing of FET, Common drain common gate configurations, MOSFETs, FET amplifier networks.

Electronic Circuits Atul P. Godse, Uday A. Bakshi. 2020-12-01 The book covers all the aspects of theory, analysis, and design of Electronic Circuits for the undergraduate course. It provides all the essential information required to understand the operation and perform the analysis and design of a wide range of electronic circuits, including MOSFET as a switching and amplifier circuits, feedback amplifiers, oscillators, voltage regulators, operational amplifiers and its applications, DAC, ADC, and Phase-Locked Loop. The book is divided into four parts. The first part focuses on the fundamental concepts of MOSFET, MOSFET construction, characteristics, and circuits - as a switch, as a resistor/diode, as an amplifier, and current sink and source circuits. The second part focuses on the

analysis of voltage-series and current-series feedback amplifiers. It also explains the Barkhausen criterion for oscillation and incorporates the detailed analysis of Wien bridge and phase-shift oscillators. The third part is dedicated to the basics of op-amp and a discussion of a variety of its applications. The fourth part focuses on the V to I and I to V Converters, DAC and ADC, and Phase-Locked Loop. 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.

Basic Electronics .2013

Analog Communication Uday A. Bakshi.2009 Communication / Pulse Modulation Block schematic of Communication System, Base Band Signals and their bandwidth requirements, RF Bands, Types and Communication Channels (Transmission Lines, Parallel Wires, Co-axial Cables, Waveguides and Optical Fiber). Necessity of Modulation, Types of Modulation : AM, FM, PM and Pulse Modulation. Block schematic of PAM, PWM, PPM. Multiplexing : TDM, FDM. Amplitude Modulation Mathematical treatment and expression for AM, Frequency Spectrum, Modulation Index, Power Relation as applied to Sinusoidal Signals, Representation of AM wave, Mathematical treatment as applied to general signals in Communication, Generation of AM using non-linear property. Types of AM Transmitters DSB-FC, DSB-SC, SSB, ISB & VSB, their generation methods and Comparison in terms of Bandwidth and Transmission Power requirements & Complexity (Block diagram treatment only) Angle Modulation Mathematical analysis of FM and PM using Sinusoidal Signals, Frequency spectrum, Mathematical treatment as applied to general non-sinusoidal Signals, Modulation index,

Bandwidth requirements (all three relations). Narrowband and Wideband FM, Comparison of FM and PM, Direct and Indirect methods of FM generation, Need for Pre-emphasis, Comparison of AM and FM. AM & FM Receivers Block diagram of AM and FM receivers, Superheterodyne Receiver, Performance characteristics : Sensitivity, Selectivity, Fidelity, Image Frequency Rejection, IFRR, Tracking, De-emphasis, Mixers. AM Detection Envelope detection, Synchronous detection, Practical diode detection, AGC. SSB and DSB detection methods. FM Detection Phase discriminator and Ratio Detector, Mathematical analysis of FM Detection. Noise Sources of Noise, Types of Noise, White Noise, SNR, Noise Figure, Noise Temperature, Friis formula for Noise Figure, Noise Bandwidth, Performance of AM (DSB, SSB & VSB) and FM in presence of Noise : Mathematical treatment Radiation and Propagation Concept of Radiation, Basic Antenna System (Dipole), Antenna parameters, Yagi Antenna. Mechanism of Propagation : Ground Wave, Sky Wave, Space Wave, Duct, Tropospheric Scatter and Extraterrestrial Propagation. Concept of Fading and diversity reception.

Electronic Circuits-I Atul. P. Godse, Uday A. Bakshi. 2020-11-27 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 π 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.

Analog Electronic Circuits (For 3rd Semester of APJKTU, Kerala) Sukumaran P.. Analog Electronic Circuits

Whispering the Strategies of Language: An Mental Quest through **Electronic Circuits Godse Bakshi**

In a digitally-driven earth where displays reign supreme and instant transmission drowns out the subtleties of language, the profound strategies and psychological nuances concealed within words usually get unheard. However, nestled within the pages of **Electronic Circuits Godse Bakshi** a interesting literary treasure sporting with natural emotions, lies an exceptional journey waiting to be undertaken. Published by a skilled wordsmith, that wonderful opus attracts visitors on an introspective journey, delicately unraveling the veiled truths and profound affect resonating within the cloth of every word. Within the psychological depths of this moving review, we will embark upon a honest exploration of the book is primary subjects, dissect their captivating writing type, and succumb to the effective resonance it evokes serious within the recesses of readers hearts.

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Electronic Circuits Godse Bakshi Introduction

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