Electronic Communication Engineering Techmax Rgpv

Ehv-Ac,Hvdc Transmission & DistributionLogic DesignComputer Aids for VLSI DesignModern Engneering PhysicsStructural Analysis-II, 4th EditionCommunication EngineeringUtilisation of Electrical PowerPower System Operation and ControlNetwork TheoryPractical ZoologyLethal WhiteDigital CommunicationDesign and Analysis of AlgorithmsRadar PrinciplesCompiler DesignA Textbook of Engineering Mathematics (PTU, Jalandhar) Sem-IIBasic Civil EngineeringPower ElectronicsComputer NetworksElectrical Drives And ControlBusiness Communication (SIE)Basics of Mechanical EngineeringElectronic Devices and CircuitsElectronics Laboratory PrimerObjective Electrical TechnologyCracking the Tech CareerAN INTRODUCTION TO HIGH VOLTAGE ENGINEERINGMECHANICAL VIBRATIONS AND NOISE ENGINEERINGElectric Circuits and NetworksAnalog And Digital CommunicationTheory of ComputationMicroprocessors & MicrocontrollersAdvanced Machining ProcessesDigital CommunicationDiscrete MathematicsSATELLITE COMMUNICATIONPrinciples Of CommunicationEngineering MathematicsPLCs & SCADA : Theory and PracticeDigital Electronics (Digital Logic Design)

Ehv-Ac,Hvdc Transmission & Distribution

The book in its present form is due to my interaction with the students for quite a long time.It had been my long-cherished desire to write a book covering most of the topics that form the syllabii of the Engineering and Science students at the degree level.Many students,although able to understand the various topics of the books,may not be able to put their knowledge to use.For this purpose a number of questions and problems are given at the end of each chapter.

Logic Design

Computer Aids for VLSI Design

Overview of Compilation : Phases of compilation - Lexical analysis, Regular grammar and regular expression for common programming language features, Pass and phases of translation, Interpretation, Bootstrapping, Data structures in compilation - LEX lexical analyzer generator.Top Down Parsing : Context free grammars, Top down parsing, Backtracking, LL (1), Recursive descent parsing, Predictive parsing, Preprocessing steps required for predictive parsing.Bottom up Parsing : Shift reduce parsing, LR and LALR parsing, Error recovery in parsing, Handling ambiguous grammar, YACC - automatic parser generator.Semantic Analysis : Intermediate forms of source programs - abstract syntax tree, Polish notation and three address codes. Attributed grammars, Syntax directed translation, Conversion of popular programming languages language constructs into intermediate code forms, Type checker.Symbol Tables : Symbol table format, Organization for block structures languages, Hashing, Tree structures representation of scope information. Block structures and non block structure

storage allocation : Static, Runtime stack and heap storage allocation, Storage allocation for arrays, strings and records.Code Optimization : Consideration for optimization, Scope of optimization, Local optimization, Loop optimization, Frequency reduction, Folding, DAG representation.Data Flow Analysis : Flow graph, Data flow equation, Global optimization, Redundant subexpression elimination, Induction variable elements, Live variable analysis, Copy propagation.Object Code Generation : Object code forms, Machine dependent code optimization, Register allocation and assignment generic code generation algorithms, DAG for register allocation.

Modern Engneering Physics

This book contains a judicious mix of concepts and solved examples that make it ideal for the beginners taking the Discrete Mathematics course. Features Exhaustive coverage of Set Theory. Comprehensive coverage of Graph Theory and Combinatorics. Excellent discussion of Group theory applications-Coding. Detailed explanation of the solution procedure of the worked examples. Pedagogy includes 341 solved examples 566 short answer questions 556 descriptive questions Over 500 figures and tables

Structural Analysis-II, 4th Edition

Communication Engineering

Utilisation of Electrical Power

Power System Operation and Control

Structural analysis, or the 'theory of structures', is an important subject for civil engineering students who are required to analyse and design structures. It is a vast field and is largely taught at the undergraduate level. A few topics like matrix method and plastic analysis are also taught at the postgraduate level and in Structural Engineering electives. The entire course has been covered in two volumes Structural Analysis-I and II. Structural Analysis-II deals in depth with the analysis of indeterminate structures, and also special topics like curved beams and unsymmetrical bending. It provides an introduction to advanced methods of analysis, namely, matrix method and plastic analysis. SALIENT FEATURES Systematic explanation of concepts and underlying theory in each chapter Numerous solved problems presented methodically University examination questions solved in many chapters A set of exercises to test the student's ability in solving them correctly NEW IN THE FOURTH EDITION Thoroughly reworked computations Objective type questions and review questions A revamped summary for each chapter Redrawing of some diagrams

Network Theory

The book takes a unique problem-solving approach, the text successfully integrates current technologies and trends while maintaining an emphasis on the fundamentals - careful analysis of the communication problem, development of an audience-focused solution, and clear, correct use of language and visuals. Salient Features: - Problem-solving approach along with an increased focus on Communication Technologies and Cross-Cultural Communication - Comprehensive pedagogy includes features comprising outlines and checklists, different boxed items, realistic problem-solving case scenarios, and special book-end appendices - Comprehensive adaptation includes features such as culture vignettes, Notes from India, and communication cases.

Practical Zoology

Lethal White

Digital Communication

This concise textbook is intended for undergraduate students of electrical engineering offering a course in high voltage engineering. Written in an easy-to-understand style, the text, now in its Second Edition, acquaints students with the physical phenomena and technical problems associated with high voltages in power systems. A complete quantitative description of the topics in high voltage engineering is difficult because of the statistical nature of the electrical breakdown phenomena in insulators. With this in mind, this book has been written to provide a basic treatment of high voltage engineering qualitatively and, wherever necessary, quantitatively. Special emphasis has been laid on breakdown mechanisms in gaseous dielectrics as it helps students gain a sound conceptual base for appreciating high voltage problems. The origin and nature of lightning and switching overvoltages occurring in power systems have been explained and illustrated with practical observations. The protection of high voltage insulation against such overvoltages has also been discussed lucidly. The concept of modern digital methods of high voltage testing of insulators, transformers, and cables has been explained. In the Second Edition, a new chapter on electrostatic field estimation and an appendix on partial discharges have been added to update the contents. Solved problems help students develop a critical appreciation of the concepts discussed. End-of-chapter questions enable students to obtain a more in-depth understanding of the key concepts.

Design and Analysis of Algorithms

Modulation Systems Time and frequency domain representation of signals, Amplitude modulation and demodulation, Frequency modulation and demodulation, Super heterodyne radio receiver. Frequency division multiplexing, Pulse width modulation.Transmission Medium Transmission lines - Types, Equivalent circuit, Losses, Standing waves, Impedance matching, Bandwidth: Radio propagation - Ground wave and space wave propagation, Critical frequency maximum usable frequency, Path loss, White Gaussian noise.Digital

Communication Pulse code modulation, Time division multiplexing, Digital T-carrier system. Digital radio system. Digital modulation: Frequency and phase shift keying - Modulator and demodulator, Bit error rate calculation.Data Communication and Network Protocol Data communication codes, Error control, Serial and parallel interface, Telephone network, Data modem, ISDN.LAN.ISO-OSI seven layer architecture for WAN.Satellite and Optical Fibre Communications Orbital satellites, Geostationary satellites, Look angles, Satellite system link models, satellite system link equations: advantages of optical fibre communication - Light propagation through fibre, Fibre loss, Light sources and detectors.

Radar Principles

Compiler Design

A Textbook of Engineering Mathematics (PTU, Jalandhar) Sem-II

Basic Civil Engineering

Electric Circuits and Networks is designed to serve as a textbook for a two-semester undergraduate course on basic electric circuits and networks. The book builds on the subject from its basic principles. Spread over seventeen chapters, the book can be taught with varying degree of emphasis on its six subsections based on the course requirement. Written in a student-friendly manner, its narrative style places adequate stress on the principles that govern the behaviour of electric circuits and networks.

Power Electronics

An unsettling cold case investigation ensnares Cormoran Strike and his partner in a web of dangerous secrets in this #1 New York Times bestseller -- "Rowling's wizardry as a writer is on fulsome display" (USA Today). When a troubled young man named Billy asks Cormoran Strike to help him investigate a crime he witnessed as a child, the private eye is left deeply troubled. While Billy is obviously mentally distressed and cannot remember many concrete details, there is something sincere about him and his story. But before Strike can question him further, Billy bolts from his office in a panic. Trying to get to the bottom of Billy's story, Strike and Robin Ellacott -- once his assistant, now a partner in the agency -- set off on a twisting trail that leads them through the backstreets of London, into a secretive inner sanctum within Parliament, and to a beautiful but sinister manor house deep in the countryside. And during this labyrinthine investigation, Strike's own life is far from straightforward. His newfound fame as a private eye means he can no longer operate behind the scenes as he once did. Plus, his relationship with his former assistant is more fraught than it ever has been; Robin is now invaluable to Strike in the business, but their personal relationship is much, much trickier than that. The most epic Robert Galbraith novel yet, Lethal White is "addictive,

murderous fun" for British mystery lovers and crime fiction fans alike (Vox).

Computer Networks

Theory of Computation offers comprehensive coverage of one of the most important subjects in the study of engineering and MCA. This book gives a detailed analysis of the working of different sets of models developed by computer scientists regarding computers and programs. It uses simple language and a systematic approach to explain the concepts, which are often considered rather difficult by students. A number of solved programs will further help the students in assimilating understanding of this important subject. A thorough perusal of this book will ensure success for students in the semester examinations. Key Features • In-depth analysis of different computational methods • Large number of solved programs for hands-on practice • Thorough coverage of additional and latest computational methods

Electrical Drives And Control

Business Communication (SIE)

This book, which is a result of the author's many years of teaching, exposes the readers to the fundamentals of mechanical vibrations and noise engineering. It provides them with the tools essential to tackle the problem of vibrations produced in machines and structures due to unbalanced forces and the noise produced thereof. The text lays emphasis on mechanical engineering applications of the subject and develops conceptual understanding with the help of many worked-out examples. What distinguishes the text is that three chapters are devoted to Sound Level and Subjective Response to Sound, Noise: Effects, Ratings and Regulations and Noise: Sources, Isolation and Control. Importance of mathematical formulation in converting a distributed parameter vibration problem into an equivalent lumped parameter problem is also emphasized. Primarily designed as a text for undergraduate and postgraduate students of mechanical engineering, this book would also be useful for undergraduate and postgraduate students of civil, aeronautical and automobile engineering as well as practising engineers.

Basics of Mechanical Engineering

Communication process, Source of information, Communication channels, Base-band and Pass-band signals, Representation of signal and systems, The modulation process, Primary communication resources, Analog versus digital communications.Amplitude modulationFrequency division and time division multiplexing, Suppressed carrier systems, Single side band transmission, Amplitude modulation with carrier power, Effect of frequency and phase errors in synchronous detection, Comparison of various AM systems, Vestigial side band transmission.Angle ModulationNarrow and wide band FM, Multiple frequency and square wave modulation, Linear and Non-linear modulation, Phase modulation, Demodulation of FM signals, Noise reduction.Pulse Modulation Pulse amplitude modulation, Other forms of pulse modulation, Bandwidth required for transmission

PAM signals, Comparison of frequency division and Time division multiplexed systems.NoiseDifferent types of noise, Noise calculations, Equivalent noise bandwidth, Noise figures, Effective noise temperature, Noise figure in cascaded stages.Performance of Communication SystemsNoise calculation in communication systems, Noise in amplitude modulated, angle modulated and pulse modulated systems, Comparison of coded and un-coded systems.Information TransmissionMeasures of information, Channel capacity, transmission of continuous signals, Exchange of bandwidth for signal to noise ratio, Efficiency of PCM systems.

Electronic Devices and Circuits

Electronics Laboratory Primer

Objective Electrical Technology

This textbook, originally published in 1987, broadly examines the software required to design electronic circuitry, including integrated circuits. Topics include synthesis and analysis tools, graphics and user interface, memory representation, and more. The book also describes a real system called "Electric."

Cracking the Tech Career

AN INTRODUCTION TO HIGH VOLTAGE ENGINEERING

Become the applicant Google can't turn down Cracking the Tech Career is the job seeker's guide to landing a coveted position at one of the top tech firms. A follow-up to The Google Resume, this book provides new information on what these companies want, and how to show them you have what it takes to succeed in the role. Early planners will learn what to study, and established professionals will discover how to make their skillset and experience set them apart from the crowd. Author Gayle Laakmann McDowell worked in engineering at Google, and interviewed over 120 candidates as a member of the hiring committee ? in this book, she shares her perspectives on what works and what doesn't, what makes you desirable, and what gets your resume saved or deleted. Apple, Microsoft, and Google are the coveted companies in the current job market. They field hundreds of resumes every day, and have their pick of the cream of the crop when it comes to selecting new hires. If you think the right alma mater is all it takes, you need to update your thinking. Top companies, especially in the tech sector, are looking for more. This book is the complete guide to becoming the candidate they just cannot turn away. Discover the career paths that run through the top tech firms Learn how to craft the prefect resume and prepare for the interview Find ways to make yourself stand out from the hordes of other applicants Understand what the top companies are looking for, and how to demonstrate that you're it These companies need certain skillsets, but they also want a great culture fit. Grades aren't everything, experience matters, and a certain type of applicant tends to succeed.

Cracking the Tech Career reveals what the hiring committee wants, and shows you how to get it.

MECHANICAL VIBRATIONS AND NOISE ENGINEERING

Electric Circuits and Networks

"All aspects pertaining to algorithm design and algorithm analysis have been discussed over the chapters in this book-- Design and Analysis of Algorithms"--Resource description page.

Analog And Digital Communication

This book is designed to meet the needs of students following curricula at various univercities.It is intended not only for engineering students,but can also be used by polytechnic and science students.The book has been broadly divided into six major areas.It is well equipped to meet the basic concepts for network and devices lab,basic devices lab,solid-state electronics(with design),ntegrated circuits lab,digital electronics(with design)lab,and basic communication Circuits lab.Through this book is designed for electronics and communication students,it also caters to other students such as those belonging to computer engineering,instrumentation and control engineering,information technology,biomedical engineering,chemical engineering,mechanical engineering and marine engineering.

Theory of Computation

Microprocessors & Microcontrollers

Principles of Combinational Logic - 1Definition of combinational logic, Canonical forms, Generation of switching equations from truth tables, Karnaugh maps-3, 4 and 5 variables, Incompletely specified functions (Don't care terms), Simplifying max term equations.Principles of Combinational Logic - 2Quine-McCluskey minimization technique - Quine-McCluskey using don't care terms, Reduced prime implicant tables, Map entered variables.Analysis and Design of Combinational Logic - I General approach, Decoders-BCD decoders, Encoders.Analysis and Design of Combinational Logic - IIDigital multiplexers - Using multiplexers as Boolean function generators, Adders and subtractors - Cascading full adders, Look ahead carry, Binary comparators. Sequential Circuits - 1Basic bistable element, Latches, SR latch, Application of SR latch, A switch debouncer, The latch, The gated SR latch, The gated D latch, The master-slave flip-flops (Pulse-triggered flip-flops) : The master-slave SR flip-flops, The master-slave JK flip-flop, Edge triggered flip-flop : The positive edge-triggered D flip-flop, Negative-edge triggered D flip-flop.Sequential Circuits - 2Characteristic equations, Registers, Counters - Binary ripple counters, Synchronous binary counters, Counters based on shift registers, Design of a 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.Sequential Design - IIntroduction, Mealy and Moore models, State machine notation, Synchronous sequential circuit analysis.Sequential Design - IIConstruction of state diagrams, counter design.Lab Experiments

Advanced Machining Processes

Writing differential equations for electrical and electronic circuits, Kirchhoff's Current Law (KCL), Kirchhoff's Voltage Law (KVL), Mesh Analysis, Initial Conditions, Star-Delta networks and Transformation, Matrix Solution of steady state network equations, Phasors, AC steady-state network equations.Waveform Synthesis, Properties of driving point impedance, Amplitude, Phase, Phase Delay, Convolution integral, Network synthesis, Active Network synthesis, Realiazibility of one part network, Hurwitz Network synthesis polynomials.Network Theorems : Superposition, Thevenin's, Norton, Miller, Tellegan, Maximum Power Transfer theorem, Reciprocity, Substitution, Current and Voltage source transformation, Star-Delta transformation.Network functions, Poles and Zeroes, Parts of Network functions, obtaining a network from a given part.Two port network parameters z, y, h and transmission parameters, Combinations of two ports, Analysis of common two ports.Analog Filter Design : Time domain, Frequency domain approximation, Low pass filter, Butterworth Chebyshev Filter, Linear Phase Filters.

Digital Communication

This compact text provides a thorough, readable treatment of the principles of satellite communication and its various technologies and components. It presents a clear analysis of subsystems of satellites, orbital mechanisms, launching mechanisms, earth and space systems employed in satellite links, and analog and digital communication through satellites. Besides, it explains the different methods used to access the various services provided by a satellite. The text avoids complicated mathematical derivations, but the results of these derivations and their references are used throughout the book when required for understanding the technical concepts. Primarily intended as a textbook for undergraduate students of electronics and communication engineering, telecommunication engineering, and information technology, this easy-to-understand book will also be useful as a reference for professional engineers.

Discrete Mathematics

SATELLITE COMMUNICATION

Practical 1 to practical 26 Practical Sketleton Paper

Principles Of Communication

OSI, TCP/IP and other networks models, Examples of networks : Novell networks, Arpanet, Internet, Network topologies WAN, LAN, MAN.Physical LayerTransmission media copper, Twisted pair wireless, Switching and encoding asynchronous communications; Narrow band, Broad band ISDN and ATM.Data Link LayerDesign

issues, framing, error detection and correction, CRC, Elementary protocol-stop and wait Sliding window, Slip, Data link layer in HDLC, Internet, ATM.Medium Access SublayerALOHA, MAC addresses, Carrier sense multiple access. IEEE 802.X Standard ethernet, Wireless LANs, Bridges.Network LayerVirtual circuit and datagram subnets - Routing algorithm shortest path routing, Flooding, Hierarchical routing, Broadcast, Multicast, Distance vector routing.Dynamic routing - Broadcast routing, Rotary for mobility. Congestion, Control algorithms - General principles of congestion prevention policies. Internet working. The network layer in the Internet and in the ATM networks.Transport LayerTransport services, Connection management, TCP and UDP protocols; ATM AAL layer protocol.Application LayerNetwork security, Domain name system, SNMP, Electronic mail; the World WEB, Multimedia.

Engineering Mathematics

Market_Desc: · Electrical Engineers, Graduate and Senior Level Students studying Radar Principles; Introduction to Radar; Radar Design Principles, Radar Systems Special Features: · It is the most comprehensive summary of the existing literature available on the topic· Engineers solve problems Peebles gives radar engineers all the mathematical details they need in order to understand and apply the underlying principals of radar-the Where from and Why that is missing in other radar books. About The Book: This book presents a comprehensive coverage and summary of the literature on radar. The author is well known and has produced a number of well received textbooks. Peebles offers a more mathematical treatment and provides many problems. This book is designed to be the basis for learning radar principles through self study.

PLCs & SCADA : Theory and Practice

In the present edition,authors have made sincere efforts to make the book up-to-date.A noteable feature is the inclusion of two chapters on Power System.It is hoped that this edition will serve the readers in a more useful way.

Digital Electronics (Digital Logic Design)

1 Introduction to Pawer Devices 2 Line Frequency Controlled Converter/ Rectifier 3 DC-DC Converter 4 Inverter 5 AC Controllers, UPS And Simulation of Converters Appendix A, B

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION