

Basic Concepts Of Electronics And Communication Engineering

RECOGNIZING THE EXAGGERATION WAYS TO ACQUIRE THIS BOOKS **BASIC CONCEPTS OF ELECTRONICS AND COMMUNICATION ENGINEERING** IS ADDITIONALLY USEFUL. YOU HAVE REMAINED IN RIGHT SITE TO BEGIN GETTING THIS INFO. GET THE BASIC CONCEPTS OF ELECTRONICS AND COMMUNICATION ENGINEERING COLLEAGUE THAT WE MANAGE TO PAY FOR HERE AND CHECK OUT THE LINK.

YOU COULD PURCHASE GUIDE BASIC CONCEPTS OF ELECTRONICS AND COMMUNICATION ENGINEERING OR ACQUIRE IT AS SOON AS FEASIBLE. YOU COULD SPEEDILY DOWNLOAD THIS BASIC CONCEPTS OF ELECTRONICS AND COMMUNICATION ENGINEERING AFTER GETTING DEAL. SO, AS SOON AS YOU REQUIRE THE BOOK SWIFTLY, YOU CAN STRAIGHT GET IT. ITS SUITABLY UNCONDITIONALLY SIMPLE AND AS A RESULT FATS, ISNT IT? YOU HAVE TO FAVOR TO IN THIS VENTILATE

FUNDAMENTALS OF ELECTRONIC COMMUNICATIONS SYSTEMS - WAYNE TOMASI 1993-12
FOR UNDERGRADUATE COURSES IN ELECTRONIC COMMUNICATIONS SYSTEMS. BASIC ELECTRONIC COMMUNICATIONS FUNDAMENTALS COMPOSE THE CORE OF THE FIRST TWO BOOKS. IN THE SECOND AND THE THIRD BOOKS, THE TREATMENT IS EXPANDED TO INCLUDE MORE MODERN DIGITAL AND DATA COMMUNICATIONS SYSTEMS. PREVIOUS EXPERIENCE WITH BASIC ELECTRONIC PRINCIPLES AND MATHEMATICS THROUGH TRIGONOMETRY WILL PROVIDE THE BACKGROUND NEEDED TO GRASP THE CONCEPTS THAT TOMASI PRESENTS.

GATE 2019 ELECTRONICS & COMMUNICATION ENGINEERING MASTERPIECE WITH 10 PRACTICE SETS (6 IN BOOK + 4 ONLINE) 6TH EDITION - DISHA EXPERTS
• 'GATE ELECTRONICS & COMMUNICATION ENGINEERING MASTERPIECE 2019 WITH 10 PRACTICE SETS - 6 IN BOOK + 4 ONLINE TESTS - 6TH EDITION' FOR GATE EXAM CONTAINS EXHAUSTIVE THEORY, PAST YEAR QUESTIONS, PRACTICE PROBLEMS AND MOCK TESTS. • COVERS PAST 14 YEARS QUESTIONS. • EXHAUSTIVE EXERCISE CONTAINING 100-150 QUESTIONS IN EACH CHAPTER. IN ALL CONTAINS AROUND 5200 MCQs. • SOLUTIONS PROVIDED FOR EACH QUESTION IN DETAIL. • THE BOOK PROVIDES 10 PRACTICE SETS - 6 IN BOOK + 4 ONLINE TESTS DESIGNED EXACTLY ON THE LATEST PATTERN OF GATE EXAM.

BASICS OF ELECTRONICS ENGINEERING - K BIKSHALU

THE BOOK BASICS OF ELECTRONICS ENGINEERING ARE USED FOR BOTH ACADEMIC STUDENTS AND SCHOLAR STUDENTS. THIS BOOK IS DEVOTED TO THE BASIC CONCEPTS OF ELECTRONICS ENGINEERING WITH ELECTRONIC COMPONENTS AND INSTRUMENTS, ACTIVE COMPONENTS AND PASSIVE COMPONENTS, TRANSFORMERS, DIGITAL ELECTRONICS, MICROPROCESSORS AND MICROCONTROLLER.

BASIC ELECTRONICS - UNITED STATES. BUREAU OF NAVAL PERSONNEL 2004

BASIC COMMUNICATIONS ELECTRONICS - JACK W. HUDSON 1999

EXPLAINS ANALOG ELECTRONIC DEVICES AND CIRCUITS--HOW THEY WORK AND HOW THEY ARE USED TO BUILD COMMUNICATIONS SYSTEMS. STRESSES BASIC CONCEPTS OF ANALOG FUNCTIONS, CIRCUITS AND SYSTEMS. EMPHASIS ON SEMICONDUCTOR DEVICES AND INTEGRATED CIRCUITS (ICs).

BASIC DIGITAL ELECTRONICS - J.A. STRONG 1991-02-07

MODERN ELECTRONICS IS THE MOST VISIBLE RESULT OF RESEARCH IN SOLID STATE PHYSICS. TRANSISTORS AND INTEGRATED CIRCUITS ARE USED EVERYWHERE IN EVER INCREASING NUMBERS. THE MICROPROCESSOR CONTROLLED COFFEE-POT EXISTS. MOST EXPERIMENTAL PHYSICISTS, AND, INDEED, EXPERIMENTAL SCIENTISTS IN MOST DISCIPLINES, STUDY THEIR SUBJECT WITH THE AID OF APPARATUS CONTAINING SIGNIFICANT AMOUNTS OF ELECTRONICS AND MUCH OF THAT ELECTRONICS IS DIGITAL. IN ORDER TO DESIGN EXPERIMENTS AND APPARATUS OR SIMPLY TO UNDERSTAND HOW A PIECE OF EQUIPMENT WORKS, AN UNDERSTANDING OF ELECTRONICS HAS BECOME INCREASINGLY IMPORTANT. IN RECOGNITION THAT ELECTRONICS HAS PERVADED SO MANY AREAS, COURSES IN DIGITAL ELECTRONICS ARE NOW A RECOMMENDED PART OF PHYSICS AND MANY OTHER SCIENCE DEGREE COURSES. AT THE INTRODUCTORY LEVEL, DIGITAL ELECTRONICS IS, PRIMARILY, A PRACTICAL SUBJECT WITH RELATIVELY FEW BASIC CONCEPTS AND ANY COMPLEXITY ARISES FROM THE COUPLING TOGETHER OF MANY SIMPLE CIRCUITS AND THE EXTENSIVE USE OF FEEDBACK. DESIGNING AN ELECTRONIC CIRCUIT AND THEN GETTING IT TO WORK CORRECTLY PROVIDES AN EXPERIENCE, AND A SENSE OF ACHIEVEMENT, WHICH IS SIGNIFICANTLY DIFFERENT FROM MOST UNDERGRADUATE WORK AS IT MORE CLOSELY RESEMBLES PROJECT WORK THAN STANDARD LABORATORY PRACTICALS.

A PROGRAMMED REVIEW FOR ELECTRICAL ENGINEERING - JAMES H. BENTLEY 2004

ANNOTATION HERE ARE 111 PROBLEMS, SOLUTIONS, AND EXPLANATIONS FOR THE TOPICS ON THE ELECTRICAL ENGINEERING EXAM. EASY-TO-USE TABLES, CHARTS, GRAPHS, AND FORMULAS PROVIDE THE BACKGROUND NEEDED TO SOLVE THE PROBLEMS. TOPICS COVERED: * FUNDAMENTAL CONCEPTS OF ELECTRICAL ENGINEERING. * BASIC CIRCUITS. * POWER. * MACHINERY. * CONTROL THEORY. * ELECTRONICS. * COMMUNICATIONS. * LOGIC. 30% OF THIS REVIEW BOOK IS TEXT, AND 70% ARE PROBLEMS.

ENGINEERING BASICS: ELECTRICAL, ELECTRONICS AND COMPUTER ENGINEERING - T. THYAGARAJAN 2007

DESIGNED FOR ENTRY-LEVEL ENGINEERING STUDENTS, THIS BOOK PRESENTS A THOROUGH EXPOSITION OF ELECTRICAL, ELECTRONICS, COMPUTER AND COMMUNICATION ENGINEERING. SIMPLE LANGUAGE HAS BEEN USED THROUGHOUT THE BOOK AND THE FUNDAMENTAL CONCEPTS HAVE BEEN SYSTEMATICALLY HIGHLIGHTED * THIS EDITION INCLUDES NEW CHAPTERS ON * TRANSMISSION AND DISTRIBUTION * COMMUNICATION SERVICES * LINEAR AND DIGITAL INTEGRATED CIRCUITS * SEQUENTIAL LOGIC SYSTEM * THE BOOK ALSO INCLUDES * LARGE NUMBER OF DIAGRAMS FOR A CLEAR UNDERSTANDING OF THE SUBJECT * CUMEROUS SOLVED EXAMPLES ILLUSTRATING BASIC CONCEPTS AND TECHNIQUES * EXERCISES AND REVIEW QUESTIONS WITH ANSWERS * REVISION FORMULAE FOR QUICK REVIEW AND RECALL ALL THESE FEATURES MAKE THIS BOOK AN IDEAL TEXT FOR BOTH DEGREE AND DIPLOMA STUDENTS ENGINEERING.

MICROPROCESSOR 3 - PHILIPPE DANCHE 2020-11-03

CALCULATION IS THE MAIN FUNCTION OF A COMPUTER. THE CENTRAL UNIT IS RESPONSIBLE FOR EXECUTING THE PROGRAMS. THE MICROPROCESSOR IS ITS INTEGRATED FORM. THIS COMPONENT, SINCE THE ANNOUNCEMENT OF ITS MARKETING IN 1971, HAS NOT STOPPED BREAKING RECORDS IN TERMS OF COMPUTING POWER, PRICE REDUCTION AND INTEGRATION OF FUNCTIONS (CALCULATION OF BASIC FUNCTIONS, STORAGE WITH INTEGRATED CONTROLLERS). IT IS PRESENT TODAY IN MOST ELECTRONIC DEVICES. KNOWING ITS INTERNAL

MECHANISMS AND PROGRAMMING IS ESSENTIAL FOR THE ELECTRONICS ENGINEER AND COMPUTER SCIENTIST TO UNDERSTAND AND MASTER THE OPERATION OF A COMPUTER AND ADVANCED CONCEPTS OF PROGRAMMING. THIS FIRST VOLUME FOCUSES MORE PARTICULARLY ON THE FIRST GENERATIONS OF MICROPROCESSORS, THAT IS TO SAY THOSE THAT HANDLE INTEGERS IN 4 AND 8-BIT FORMATS. THE FIRST CHAPTER PRESENTS THE CALCULATION FUNCTION AND REMINDS THE MEMORY FUNCTION. THE FOLLOWING IS DEVOTED TO NOTIONS OF CALCULATION MODEL AND ARCHITECTURE. THE CONCEPT OF BUS IS THEN PRESENTED. CHAPTERS 4 AND 5 CAN THEN ADDRESS THE INTERNAL ORGANIZATION AND OPERATION OF THE MICROPROCESSOR FIRST IN HARDWARE AND THEN SOFTWARE. THE MECHANISM OF THE FUNCTION CALL, CONVENTIONAL AND INTERRUPTED, IS MORE PARTICULARLY DETAILED IN A SEPARATE CHAPTER. THE BOOK ENDS WITH A PRESENTATION OF ARCHITECTURES OF THE FIRST MICROCOMPUTERS FOR A HISTORICAL PERSPECTIVE. THE KNOWLEDGE IS PRESENTED IN THE MOST EXHAUSTIVE WAY POSSIBLE WITH EXAMPLES DRAWN FROM CURRENT AND OLD TECHNOLOGIES THAT ILLUSTRATE AND MAKE ACCESSIBLE THE THEORETICAL CONCEPTS. EACH CHAPTER ENDS IF NECESSARY WITH CORRECTED EXERCISES AND A BIBLIOGRAPHY. THE LIST OF ACRONYMS USED AND AN INDEX ARE AT THE END OF THE BOOK.

BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING - P. SIVARAMAN 2021-01-13

ELECTRICAL AND INSTRUMENTATION ENGINEERING IS CHANGING RAPIDLY, AND IT IS IMPORTANT FOR THE VETERAN ENGINEER IN THE FIELD NOT ONLY TO HAVE A VALUABLE AND RELIABLE REFERENCE WORK WHICH HE OR SHE CAN CONSULT FOR BASIC CONCEPTS, BUT ALSO TO BE UP TO DATE ON ANY CHANGES TO BASIC EQUIPMENT OR PROCESSES THAT MIGHT HAVE OCCURRED IN THE FIELD. COVERING ALL OF THE BASIC CONCEPTS, FROM THREE-PHASE POWER SUPPLY AND ITS VARIOUS TYPES OF CONNECTION AND CONVERSION, TO POWER EQUATION AND DISCUSSIONS OF THE PROTECTION OF POWER SYSTEM, TO TRANSFORMERS, VOLTAGE REGULATION, AND MANY OTHER CONCEPTS, THIS VOLUME IS THE ONE-STOP, "GO TO" FOR ALL OF THE ENGINEER'S QUESTIONS ON BASIC ELECTRICAL AND INSTRUMENTATION ENGINEERING. THERE ARE CHAPTERS COVERING THE CONSTRUCTION AND WORKING PRINCIPLE OF THE DC MACHINE, ALL VARIETIES OF MOTORS, FUNDAMENTAL CONCEPTS AND OPERATING PRINCIPLES OF MEASURING, AND INSTRUMENTATION, BOTH FROM A "HIGH END" POINT OF VIEW AND THE POINT OF VIEW OF DEVELOPING COUNTRIES, EMPHASIZING LOW-COST METHODS. A VALUABLE REFERENCE FOR ENGINEERS, SCIENTISTS, CHEMISTS, AND STUDENTS, THIS VOLUME IS APPLICABLE TO MANY DIFFERENT FIELDS, ACROSS MANY DIFFERENT INDUSTRIES, AT ALL LEVELS. IT IS A MUST-HAVE FOR ANY LIBRARY.

GROB'S BASIC ELECTRONICS WITH SIMULATION CD - MITCHEL SCHULTZ 2006-05-03

GROB'S BASIC ELECTRONICS, TENTH EDITION, IS WRITTEN FOR THE BEGINNING STUDENT PURSUING A TECHNICAL DEGREE IN ELECTRONICS TECHNOLOGY. IN COVERING THE FUNDAMENTALS OF ELECTRICITY AND ELECTRONICS, THIS TEXT FOCUSES ON ESSENTIAL TOPICS FOR THE TECHNICIAN, AND THE ALL-IMPORTANT DEVELOPMENT OF TESTING AND TROUBLESHOOTING SKILLS. THIS HIGHLY PRACTICAL APPROACH COMBINES CLEAR, CAREFULLY-LAID-OUT EXPLANATIONS OF KEY TOPICS WITH GOOD, WORKED-OUT EXAMPLES AND PROBLEMS TO SOLVE. REVIEW PROBLEMS THAT FOLLOW EACH SECTION REINFORCE THE MATERIAL JUST COMPLETED, MAKING THIS A VERY STUDENT-FRIENDLY TEXT. IT IS A THOROUGHLY ACCESSIBLE INTRODUCTION TO BASIC DC AND AC CIRCUITS AND ELECTRONIC DEVICES. THIS TENTH EDITION OF THIS LONGTIME BEST-SELLING TEXT HAS BEEN REFINED, UPDATED AND MADE MORE STUDENT FRIENDLY. THE FOCUS ON ABSOLUTELY ESSENTIAL KNOWLEDGE FOR TECHNICIANS, AND FOCUS ON REAL-WORLD APPLICATIONS OF THESE BASIC CONCEPTS MAKES IT IDEAL FOR TODAY'S TECHNOLOGY STUDENTS.

BASIC CONCEPTS OF ELECTRICAL AND ELECTRONICS ENGINEERING - P S SUBRAMANYAM 2019-09-29

AN EARNEST ATTEMPT HAS BEEN MADE IN THE BOOK "BASIC CONCEPTS OF ELECTRICAL AND ELECTRONICS ENGINEERING" TO ELUCIDATE THE PRINCIPLES AND APPLICATIONS OF ELECTRICAL AND ELECTRONICS ENGINEERING AND ITS IMPORTANCE, AS TO EVINCE INTEREST ON THE TOPICS SO THAT THE STUDENTS GETS MOTIVATED TO STUDY THE SUBJECT WITH THE INTEREST.

ELEMENTS OF PLASMA TECHNOLOGY - CHIOU SAN WONG 2015-12-24

THIS BOOK PRESENTS SOME FUNDAMENTAL ASPECTS OF PLASMA TECHNOLOGY THAT ARE IMPORTANT FOR BEGINNERS INTERESTED TO START RESEARCH IN THE AREA OF PLASMA TECHNOLOGY. THESE INCLUDE THE PROPERTIES OF PLASMA, METHODS OF PLASMA GENERATION AND BASIC PLASMA DIAGNOSTIC TECHNIQUES. IT ALSO DISCUSSES SEVERAL LOW COST PLASMA DEVICES, INCLUDING PULSED PLASMA SOURCES SUCH AS PLASMA FOCUS, PULSED CAPILLARY DISCHARGE, VACUUM SPARK AND EXPLODING WIRE; AS WELL AS LOW TEMPERATURE PLASMAS SUCH AS GLOW DISCHARGE AND DIELECTRIC BARRIER DISCHARGE WHICH THE AUTHORS BELIEVE MAY HAVE POTENTIAL APPLICATIONS IN INDUSTRY. THE TREATMENTS ARE EXPERIMENTAL RATHER THAN THEORETICAL, ALTHOUGH SOME THEORETICAL BACKGROUND IS PROVIDED WHERE APPROPRIATE. THE PRINCIPLES OF OPERATION OF THESE DEVICES ARE ALSO REVIEWED AND DISCUSSED.

BASIC ELECTRONICS ENGINEERING - SYED AKHTAR IMAM 2017-02-28

EXPLAINS THE FUNDAMENTAL CONCEPTS AND PRINCIPLES BEHIND DIGITAL LOGIC DESIGNS IN A SIMPLE, EASY-TO-UNDERSTAND MANNER. EACH CHAPTER CONTAINS SOLVED EXAMPLES AND PROBLEMS. IT HAS BEEN WRITTEN IS TO CATER TO THE NEEDS OF STUDENTS OF ELECTRONICS AND COMMUNICATION ENGINEERING, COMPUTER SCIENCE ENGINEERING, IT, AND ELECTRONICS AND INSTRUMENTATION ENGINEERING.

BASIC ELECTRONICS - CHINMOY SAHA 2018-05-03

WITH THE PRESENCE OF ENHANCED PEDAGOGICAL FEATURES, THE TEXT WILL HELP READERS IN UNDERSTANDING FUNDAMENTAL CONCEPTS OF ELECTRONICS ENGINEERING.

BASIC CONCEPTS OF ELECTRICAL ENGINEERING - KULDEEP SAHAY 2006

THIS BOOK PRESENTS A PRACTICAL-ORIENTED, SOUND, MODULARIZED COVERAGE OF FUNDAMENTAL TOPICS OF BASIC ELECTRICAL ENGINEERING, NETWORK ANALYSIS & NETWORK THEOREMS, ELECTROMAGNETISM & MAGNETIC CIRCUIT, ALTERNATING CURRENT & VOLTAGES, ELECTRICAL MEASUREMENT & MEASURING INSTRUMENT AND ELECTRIC MACHINES. SALIENT FEATURES: # CLARIFICATION OF BASIC CONCEPTS # SEVERAL SOLVED EXAMPLES WITH DETAILED EXPLANATION # AT THE END OF CHAPTERS, THERE ARE DESCRIPTIVE AND NUMERICAL UNSOLVED PROBLEMS # WRITTEN IN VERY SIMPLE LANGUAGE AND SUITABLE FOR SELF-STUDY # STEP-BY-STEP PROCEDURES GIVEN FOR SOLVING NUMERICAL

POWER ELECTRONICS, A FIRST COURSE - NED MOHAN 2022-12-07

POWER ELECTRONICS A FIRST COURSE ENABLES STUDENTS TO UNDERSTAND POWER ELECTRONICS SYSTEMS, AS ONE COURSE, IN AN INTEGRATED ELECTRIC ENERGY SYSTEMS CURRICULUM. POWER ELECTRONICS A FIRST COURSE PROVIDES INSTRUCTION ON FUNDAMENTAL CONCEPTS RELATED TO POWER ELECTRONICS TO UNDERGRADUATE ELECTRICAL ENGINEERING STUDENTS, BEGINNING WITH AN INTRODUCTORY CHAPTER AND MOVING ON TO DISCUSSING TOPICS SUCH AS SWITCHING POWER-POLES, SWITCH-MODE DC-DC CONVERTERS, AND FEEDBACK CONTROLLERS. THE AUTHORS ALSO COVER DIODE RECTIFIERS, POWER-FACTOR-CORRECTION (PFC) CIRCUITS, AND SWITCH-MODE DC POWER SUPPLIES. LATER CHAPTERS TOUCH ON SOFT-SWITCHING IN DC-DC POWER CONVERTERS, VOLTAGE AND CURRENT REQUIREMENTS IMPOSED BY VARIOUS POWER APPLICATIONS, DC AND LOW-FREQUENCY SINUSOIDAL AC VOLTAGES, THYRISTOR CONVERTERS, AND THE UTILITY APPLICATIONS OF HARNESSING ENERGY FROM RENEWABLE SOURCES. POWER ELECTRONICS A FIRST COURSE IS THE ONLY TEXTBOOK THAT IS INTEGRATED WITH HARDWARE EXPERIMENTS AND SIMULATION RESULTS. THE SIMULATION FILES ARE AVAILABLE ON A WEBSITE ASSOCIATED WITH THIS TEXTBOOK. THE HARDWARE EXPERIMENTS WILL BE AVAILABLE THROUGH A UNIVERSITY OF MINNESOTA STARTUP AT A LOW COST. IN POWER ELECTRONICS A FIRST COURSE, READERS CAN EXPECT TO FIND DETAILED INFORMATION ON: AVAILABILITY OF VARIOUS POWER SEMICONDUCTOR DEVICES THAT ARE ESSENTIAL IN POWER ELECTRONIC SYSTEMS, PLUS THEIR SWITCHING CHARACTERISTICS AND VARIOUS TRADEOFFS COMMON FOUNDATIONAL UNIT OF VARIOUS CONVERTERS AND THEIR OPERATION, PLUS FUNDAMENTAL CONCEPTS FOR FEEDBACK CONTROL, ILLUSTRATED BY MEANS OF REGULATED DC-DC CONVERTERS BASIC CONCEPTS ASSOCIATED WITH MAGNETIC CIRCUITS, TO DEVELOP AN UNDERSTANDING OF INDUCTORS AND TRANSFORMERS NEEDED IN POWER ELECTRONICS PROBLEMS ASSOCIATED WITH HARD SWITCHING, AND SOME OF THE PRACTICAL CIRCUITS WHERE THIS PROBLEM CAN BE MINIMIZED WITH SOFT-SWITCHING. POWER ELECTRONICS A FIRST COURSE IS AN IDEAL TEXTBOOK FOR JUNIOR/SENIOR-UNDERGRADUATE STUDENTS IN ELECTRICAL AND COMPUTER ENGINEERING (ECE). IT IS ALSO VALUABLE TO STUDENTS OUTSIDE OF ECE, SUCH AS THOSE IN MORE GENERAL ENGINEERING FIELDS. BASIC UNDERSTANDING OF ELECTRICAL ENGINEERING CONCEPTS AND CONTROL SYSTEMS IS A PREREQUISITE.

ANALOG COMMUNICATION - V. CHANDRA SEKAR 2010

ANALOG COMMUNICATION HAS BEEN SPECIALLY DESIGNED FOR USE BY THE UNDERGRADUATE STUDENTS AS WELL AS THE FACULTY OF ELECTRICAL, ELECTRONICS, AND COMMUNICATIONS ENGINEERING. IT PROVIDES AN EXHAUSTIVE COVERAGE ON THE FUNDAMENTAL CONCEPTS AND RECENT DEVELOPMENTS IN COMMUNICATION THEORY. THE BOOK FOLLOWS A BOTTOM-UP APPROACH BY BUILDING UP THE BASIC CONCEPTS OF CONVENTIONAL MODULATION SYSTEMS IN THE INITIAL CHAPTERS AND DESCRIBING THE LATEST TREND IN COMMUNICATIONS TOWARDS THE END. IT COVERS, AFTER A BRIEF INTRODUCTION ON THE CONCEPTS OF COMMUNICATION THEORY, CHAPTERS ON AMPLITUDE MODULATION, ANGLE MODULATION, PULSE MODULATION AND ALSO DISCUSSES THE CONCEPT OF TDM, FDM, DELTA AND ADAPTIVE DELTA MODULATIONS. THE BOOK ALSO PROVIDES A CHAPTER ON DIGITAL COMMUNICATION THAT CONTAINS COVERAGE ON THE CONCEPT OF FSK, PSK, QAM ETC IN A BRIEF MANNER. A SEPARATE CHAPTER ON "NOISE" HIGHLIGHTS THE DIFFERENT TYPE OF NOISE ENCOUNTERED IN COMMUNICATION SYSTEMS AND THEIR EFFECT ON VARIOUS TYPES OF MODULATION. WRITTEN IN A LUCID MANNER, THE BOOK INCLUDES A LARGE NUMBER OF CIRCUIT DIAGRAMS, WORKED OUT EXAMPLES, IMPORTANT FORMULAE, AND GRADED QUESTIONS FOR PRACTICE, THEREBY, ENABLING THE USERS TO HAVE A SOUND GRASP OF THE CONCEPTS PRESENTED IN THE BOOK AND THEIR APPLICATIONS.

ELECTRONICS AND COMMUNICATION ENGINEERING HANDBOOK - SUSURLA V. S. SURESH 2017-02-28

ELECTRONICS AND COMMUNICATION ENGINEERING HANDBOOK: FOR ECE COMPETITIVE EXAMINATIONS IS A COMPREHENSIVE BOOK WHICH COVERS ALMOST ALL THE BASIC CONCEPTS OF ECE. IT IS WRITTEN TO ADDRESS THE NEEDS OF THE STUDENTS/ASPIRANTS OF THE NATIONAL LEVEL COMPETITIVE EXAMINATIONS IN ELECTRONICS AND COMMUNICATION ENGINEERING (GATE-ECE/ IES/ BEL/ ISRO/ OTHER PSU EXAMINATIONS). AN EXTENSIVE STUDY OF ALL THE CORE SUBJECTS IN ELECTRONICS AND COMMUNICATIONS IS REQUIRED TO CRACK SUCH EXAMINATIONS. THIS BOOK IS WRITTEN TO BE A ONE-STOP SOURCE FOR STUDY AND REVISION OF ALL THE IMPORTANT CONCEPTS IN ECE, SO THAT THE STUDENTS/ASPIRANTS DO NOT MISS ANY IMPORTANT CONCEPT THAT MIGHT BE USEFUL FOR SOLVING PROBLEMS IN THE EXAMINATION. THE BOOK IS AN OUTCOME OF THE AUTHOR'S OWN EXPERIENTIAL INSIGHTS, AND IT WILL IMMENSELY HELP THE STUDENTS/ASPIRANTS IN FINDING THE RIGHT WAY AND THE RIGHT APPROACH OF PREPARATION FOR COMPETITIVE EXAMINATIONS.

8051 MICROCONTROLLERS - SALVADOR PINILLOS GIMENEZ 2018-05-22

THIS TEXTBOOK DESCRIBES IN DETAIL THE FUNDAMENTAL INFORMATION ABOUT THE 8051 MICROCONTROLLER AND IT CAREFULLY TEACHES READERS HOW TO USE THE MICROCONTROLLER TO MAKE BOTH ELECTRONICS HARDWARE AND SOFTWARE. IN ADDITION TO DISCUSSION OF THE 8051 INTERNALS, THIS TEXT INCLUDES NUMEROUS, SOLVED EXAMPLES, END-OF-CHAPTER EXERCISES, LABORATORY AND PRACTICAL PROJECTS.

FUNDAMENTALS OF ELECTRONICS 1 - PIERRE MURET 2017-08-14

ELECTRONICS HAS UNDERGONE IMPORTANT AND RAPID DEVELOPMENTS OVER THE LAST 60 YEARS, WHICH HAVE GENERATED A LARGE RANGE OF THEORETICAL AND PRACTICAL NOTIONS. THIS BOOK PRESENTS A COMPREHENSIVE TREATISE OF THE EVOLUTION OF ELECTRONICS FOR THE READER TO GRASP BOTH FUNDAMENTAL CONCEPTS AND THE ASSOCIATED PRACTICAL APPLICATIONS THROUGH EXAMPLES AND EXERCISES. THIS FIRST VOLUME OF THE FUNDAMENTALS OF ELECTRONICS SERIES COMPRISES FOUR CHAPTERS DEVOTED TO

ELEMENTARY DEVICES, I.E. DIODES, BIPOLAR JUNCTION TRANSISTORS AND RELATED DEVICES, FIELD EFFECT TRANSISTORS AND AMPLIFIERS, THEIR ELECTRICAL MODELS AND THE BASIC FUNCTIONS THEY CAN ACHIEVE. VOLUMES TO COME WILL DEAL WITH SYSTEMS IN THE CONTINUOUS TIME REGIME, THE VARIOUS ASPECTS OF SAMPLING SIGNALS AND SYSTEMS USING ANALOG (A) AND DIGITAL (D) TREATMENTS, QUANTIZED LEVEL SYSTEMS, AS WELL AS DA AND AD CONVERTER PRINCIPLES AND REALIZATIONS.

ELECTRONICS ALL-IN-ONE FOR DUMMIES - UK - DICKON ROSS 2013-09-24

YOUR ONE-STOP UK SHOP FOR CLEAR, CONCISE EXPLANATIONS TO ALL THE IMPORTANT CONCEPTS IN ELECTRONICS AND TONS OF DIRECTION FOR BUILDING SIMPLE, FUN ELECTRONIC PROJECTS. THE 8 MINI-BOOKS IN THIS 1 VOLUME INCLUDE: GETTING STARTED WITH ELECTRONICS WORKING WITH BASIC COMPONENTS WORKING WITH INTEGRATED CIRCUITS GETTING INTO ALTERNATING CURRENT WORKING WITH RADIO AND INFRARED DOING DIGITAL ELECTRONICS WORKING WITH BASIC STAMP PROCESSORS BUILDING SPECIAL EFFECTS WITH NEARLY 900 PAGES OF INSTRUCTION, ELECTRONICS ALL-IN-ONE FOR DUMMIES, UK EDITION COVERS ALL THE BASES AND PROVIDES A FASCINATING HANDS-ON EXPLORATION OF ELECTRONICS.

FOUNDATIONS OF ELECTRONICS - J. R. COGDELL 1999

EXTRACTED FROM THE HIGHLY SUCCESSFUL FOUNDATIONS OF ELECTRICAL ENGINEERING BY THE SAME AUTHOR, THIS BOOK SURVEYS THE FUNDAMENTAL CONCEPTS OF ELECTRONICS FOR NON-MAJORS. THE FIRST CHAPTER REVIEWS CIRCUIT ANALYSIS TECHNIQUES AS RELATED TO THE ANALYSIS OF ELECTRONIC CIRCUITS, AND THE REMAINDER OF THE BOOK COVERS ELECTRONIC DEVICES, DIGITAL CIRCUITS, ANALOG CIRCUITS, INSTRUMENTATION SYSTEMS, COMMUNICATION SYSTEMS, AND LINEAR SYSTEM THEORY BASED ON COMPLEX FREQUENCY TECHNIQUES. THE PRESENTATION ASSUMES KNOWLEDGE OF BASIC PHYSICS AND CALCULUS AND IS IDEAL FOR A ONE-SEMESTER SURVEY OF ELECTRONICS FOR STUDENTS KNOWING CIRCUIT THEORY. USED WITH FOUNDATIONS OF ELECTRIC CIRCUITS, THIS BOOK IS IDEAL FOR A ONE-SEMESTER COURSE IN CIRCUITS AND ELECTRONICS FOR PHYSICS, ENGINEERING, OR COMPUTER SCIENCE STUDENTS. FEATURES/BENEFITS EMPHASIS IS PLACED ON CLEAR DEFINITIONS OF CONCEPTS AND VOCABULARY. PROBLEMS ARE OFFERED AT THREE LEVELS: "WHAT IF" PROBLEMS EXTENDING EXAMPLES IN THE TEXT, WITH ANSWERS; "CHECK OUR UNDERSTANDING" PROBLEMS AFTER EACH MAJOR SECTION, WITH ANSWERS, AND EXTENSIVE END-OF-CHAPTER PROBLEMS IDENTIFIED WITH CHAPTER SECTIONS, WITH ANSWERS FOR ODD PROBLEMS. FULL PEDAGOGICAL TOOLS: CHAPTER OBJECTIVES, MARGINAL AIDS, CHAPTER SUMMARIES, CHAPTER GLOSSARIES TIED TO CONTEXT, AND A COMPLETE INDEX.

INFORMATION THEORY FOR ELECTRICAL ENGINEERS - ORHAN GAZI 2018-03-09

THIS BOOK EXPLAINS THE FUNDAMENTAL CONCEPTS OF INFORMATION THEORY, SO AS TO HELP STUDENTS BETTER UNDERSTAND MODERN COMMUNICATION TECHNOLOGIES. IT WAS ESPECIALLY WRITTEN FOR ELECTRICAL AND COMMUNICATION ENGINEERS WORKING ON COMMUNICATION SUBJECTS. THE BOOK ESPECIALLY FOCUSES ON THE UNDERSTANDABILITY OF THE TOPICS, AND ACCORDINGLY USES SIMPLE AND DETAILED MATHEMATICS, TOGETHER WITH A WEALTH OF SOLVED EXAMPLES. THE BOOK CONSISTS OF FOUR CHAPTERS, THE FIRST OF WHICH EXPLAINS THE ENTROPY AND MUTUAL INFORMATION CONCEPT FOR DISCRETE RANDOM VARIABLES. CHAPTER 2 INTRODUCES THE CONCEPTS OF ENTROPY AND MUTUAL INFORMATION FOR CONTINUOUS RANDOM VARIABLES, ALONG WITH THE CHANNEL CAPACITY. IN TURN, CHAPTER 3 IS DEVOTED TO THE TYPICAL SEQUENCES AND DATA COMPRESSION. ONE OF SHANNON'S MOST IMPORTANT DISCOVERIES IS THE CHANNEL CODING THEOREM, AND IT IS CRITICAL FOR ELECTRICAL AND COMMUNICATION ENGINEERS TO FULLY COMPREHEND THE THEOREM. AS SUCH, CHAPTER 4 SOLELY FOCUSES ON IT. TO GAIN THE MOST FROM THE BOOK, READERS SHOULD HAVE A FUNDAMENTAL GRASP OF PROBABILITY AND RANDOM VARIABLES; OTHERWISE, THEY WILL FIND IT NEARLY IMPOSSIBLE TO UNDERSTAND THE TOPICS DISCUSSED.

BASIC CONCEPTS IN ELECTRONIC INSTRUMENTATION - CHARLES KENNETH MANN 1974

BASIC CONCEPTS IN INFORMATION THEORY AND CODING - SOLOMON W. GOLOMB 2013-03-09

BASIC CONCEPTS IN INFORMATION THEORY AND CODING IS AN OUTGROWTH OF A ONE SEMESTER INTRODUCTORY COURSE THAT HAS BEEN TAUGHT AT THE UNIVERSITY OF SOUTHERN CALIFORNIA SINCE THE MID-1960S. LECTURE NOTES FROM THAT COURSE HAVE EVOLVED IN RESPONSE TO STUDENT REACTION, NEW TECHNOLOGICAL AND THEORETICAL DEVELOPMENTS, AND THE INSIGHTS OF FACULTY MEMBERS WHO HAVE TAUGHT THE COURSE (INCLUDING THE THREE OF US). IN PRESENTING THIS MATERIAL, WE HAVE MADE IT ACCESSIBLE TO A BROAD AUDIENCE BY LIMITING PREREQUISITES TO BASIC CALCULUS AND THE ELEMENTARY CONCEPTS OF DISCRETE PROBABILITY THEORY. TO KEEP THE MATERIAL SUITABLE FOR A ONE-SEMESTER COURSE, WE HAVE LIMITED ITS SCOPE TO DISCRETE INFORMATION THEORY AND A GENERAL DISCUSSION OF CODING THEORY WITHOUT DETAILED TREATMENT OF ALGORITHMS FOR ENCODING AND DECODING FOR VARIOUS SPECIFIC CODE CLASSES. READERS WILL FIND THAT THIS BOOK OFFERS AN UNUSUALLY THOROUGH TREATMENT OF NOISELESS SELF-SYNCHRONIZING CODES, AS WELL AS THE ADVANTAGE OF PROBLEM SECTIONS THAT HAVE BEEN HONED BY REACTIONS AND INTERACTIONS OF SEVERAL GENERATIONS OF BRIGHT STUDENTS, WHILE AGENT 00111 PROVIDES A CONTEXT FOR THE DISCUSSION OF ABSTRACT CONCEPTS.

BASIC CONCEPTS FOR MANAGING TELECOMMUNICATIONS NETWORKS - LAWRENCE BERNSTEIN 2006-04-11

IT IS IMPORTANT TO UNDERSTAND WHAT CAME BEFORE AND HOW TO MELD NEW PRODUCTS WITH LEGACY SYSTEMS. NETWORK MANAGERS NEED TO UNDERSTAND THE CONTEXT AND ORIGINS OF THE SYSTEMS THEY ARE USING. PROGRAMMERS NEED AN UNDERSTANDING OF THE REASONS BEHIND THE INTERFACES THEY MUST SATISFY AND THE RELATIONSHIP OF THE SOFTWARE THEY BUILD TO THE WHOLE NETWORK. AND FINALLY, SALES REPRESENTATIVES NEED TO SEE THE CONTEXT INTO WHICH THEIR PRODUCTS MUST FIT.

FUNDAMENTAL CONCEPTS IN ELECTRICAL AND COMPUTER ENGINEERING WITH PRACTICAL DESIGN PROBLEMS - REZA ADHAMI 2007

IN MANY CASES, THE BEGINNING ENGINEERING STUDENT IS THROWN INTO UPPER-LEVEL ENGINEERING COURSES WITHOUT AN ADEQUATE INTRODUCTION TO THE BASIC MATERIAL. THIS, AT BEST, CAUSES UNDUE STRESS ON THE STUDENT AS THEY FEEL UNPREPARED WHEN FACED WITH UNFAMILIAR MATERIAL, AND AT WORST, RESULTS IN STUDENTS DROPPING OUT OF THE PROGRAM OR CHANGING MAJORS WHEN THEY DISCOVER THAT THEIR CHOSEN FIELD OF ENGINEERING IS NOT WHAT THEY THOUGHT IT WAS. THE PURPOSE OF THIS TEXT IS TO

INTRODUCE THE STUDENT TO A GENERAL CROSS-SECTION OF THE FIELD OF ELECTRICAL AND COMPUTER ENGINEERING. THE TEXT IS AIMED AT INCOMING FRESHMEN, AND AS SUCH, ASSUMES THAT THE READER HAS A LIMITED TO NONEXISTENT BACKGROUND IN ELECTRICAL ENGINEERING AND KNOWLEDGE OF NO MORE THAN PRE-CALCULUS IN THE FIELD OF MATHEMATICS. BY EXPOSING STUDENTS TO THESE FIELDS AT AN INTRODUCTORY LEVEL, EARLY IN THEIR STUDIES, THEY WILL HAVE BOTH A BETTER IDEA OF WHAT TO EXPECT IN LATER CLASSES AND A GOOD FOUNDATION OF KNOWLEDGE UPON WHICH TO BUILD.

THE ELECTRICAL ENGINEERING HANDBOOK - SIX VOLUME SET, THIRD EDITION - RICHARD C. DORF 2006-01-20

IN TWO EDITIONS SPANNING MORE THAN A DECADE, THE ELECTRICAL ENGINEERING HANDBOOK STANDS AS THE DEFINITIVE REFERENCE TO THE MULTIDISCIPLINARY FIELD OF ELECTRICAL ENGINEERING. OUR KNOWLEDGE CONTINUES TO GROW, AND SO DOES THE HANDBOOK. FOR THE THIRD EDITION, IT HAS GROWN INTO A SET OF SIX BOOKS CAREFULLY FOCUSED ON SPECIALIZED AREAS OR FIELDS OF STUDY. EACH ONE REPRESENTS A CONCISE YET DEFINITIVE COLLECTION OF KEY CONCEPTS, MODELS, AND EQUATIONS IN ITS RESPECTIVE DOMAIN, THOUGHTFULLY GATHERED FOR CONVENIENT ACCESS. COMBINED, THEY CONSTITUTE THE MOST COMPREHENSIVE, AUTHORITATIVE RESOURCE AVAILABLE. CIRCUITS, SIGNALS, AND SPEECH AND IMAGE PROCESSING PRESENTS ALL OF THE BASIC INFORMATION RELATED TO ELECTRIC CIRCUITS AND COMPONENTS, ANALYSIS OF CIRCUITS, THE USE OF THE LAPLACE TRANSFORM, AS WELL AS SIGNAL, SPEECH, AND IMAGE PROCESSING USING FILTERS AND ALGORITHMS. IT ALSO EXAMINES EMERGING AREAS SUCH AS TEXT TO SPEECH SYNTHESIS, REAL-TIME PROCESSING, AND EMBEDDED SIGNAL PROCESSING. ELECTRONICS, POWER ELECTRONICS, OPTOELECTRONICS, MICROWAVES, ELECTROMAGNETICS, AND RADAR DELVES INTO THE FIELDS OF ELECTRONICS, INTEGRATED CIRCUITS, POWER ELECTRONICS, OPTOELECTRONICS, ELECTROMAGNETICS, LIGHT WAVES, AND RADAR, SUPPLYING ALL OF THE BASIC INFORMATION REQUIRED FOR A DEEP UNDERSTANDING OF EACH AREA. IT ALSO DEVOTES A SECTION TO ELECTRICAL EFFECTS AND DEVICES AND EXPLORES THE EMERGING FIELDS OF MICROLITHOGRAPHY AND POWER ELECTRONICS. SENSORS, NANOSCIENCE, BIOMEDICAL ENGINEERING, AND INSTRUMENTS PROVIDES THOROUGH COVERAGE OF SENSORS, MATERIALS AND NANOSCIENCE, INSTRUMENTS AND MEASUREMENTS, AND BIOMEDICAL SYSTEMS AND DEVICES, INCLUDING ALL OF THE BASIC INFORMATION REQUIRED TO THOROUGHLY UNDERSTAND EACH AREA. IT EXPLORES THE EMERGING FIELDS OF SENSORS, NANOTECHNOLOGIES, AND BIOLOGICAL EFFECTS. BROADCASTING AND OPTICAL COMMUNICATION TECHNOLOGY EXPLORES COMMUNICATIONS, INFORMATION THEORY, AND DEVICES, COVERING ALL OF THE BASIC INFORMATION NEEDED FOR A THOROUGH UNDERSTANDING OF THESE AREAS. IT ALSO EXAMINES THE EMERGING AREAS OF ADAPTIVE ESTIMATION AND OPTICAL COMMUNICATION. COMPUTERS, SOFTWARE ENGINEERING, AND DIGITAL DEVICES EXAMINES DIGITAL AND LOGICAL DEVICES, DISPLAYS, TESTING, SOFTWARE, AND COMPUTERS, PRESENTING THE FUNDAMENTAL CONCEPTS NEEDED TO ENSURE A THOROUGH UNDERSTANDING OF EACH FIELD. IT TREATS THE EMERGING FIELDS OF PROGRAMMABLE LOGIC, HARDWARE DESCRIPTION LANGUAGES, AND PARALLEL COMPUTING IN DETAIL. SYSTEMS, CONTROLS, EMBEDDED SYSTEMS, ENERGY, AND MACHINES EXPLORES IN DETAIL THE FIELDS OF ENERGY DEVICES, MACHINES, AND SYSTEMS AS WELL AS CONTROL SYSTEMS. IT PROVIDES ALL OF THE FUNDAMENTAL CONCEPTS NEEDED FOR THOROUGH, IN-DEPTH UNDERSTANDING OF EACH AREA AND DEVOTES SPECIAL ATTENTION TO THE EMERGING AREA OF EMBEDDED SYSTEMS. ENCOMPASSING THE WORK OF THE WORLD'S FOREMOST EXPERTS IN THEIR RESPECTIVE SPECIALTIES, THE ELECTRICAL ENGINEERING HANDBOOK, THIRD EDITION REMAINS THE MOST CONVENIENT, RELIABLE SOURCE OF INFORMATION AVAILABLE. THIS EDITION FEATURES THE LATEST DEVELOPMENTS, THE BROADEST SCOPE OF COVERAGE, AND NEW MATERIAL ON NANOTECHNOLOGIES, FUEL CELLS, EMBEDDED SYSTEMS, AND BIOMETRICS. THE ENGINEERING COMMUNITY HAS RELIED ON THE HANDBOOK FOR MORE THAN TWELVE YEARS, AND IT WILL CONTINUE TO BE A PLATFORM TO LAUNCH THE NEXT WAVE OF ADVANCEMENTS. THE HANDBOOK'S LATEST INCARNATION FEATURES A PROTECTIVE SLIPCASE, WHICH HELPS YOU STAY ORGANIZED WITHOUT OVERWHELMING YOUR BOOKSHELF. IT IS AN ATTRACTIVE ADDITION TO ANY COLLECTION, AND WILL HELP KEEP EACH VOLUME OF THE HANDBOOK AS FRESH AS YOUR LATEST RESEARCH.

ELECTRIC CIRCUITS - GENSHENG LAWRENCE ZENG 2021-03-21

THIS TEXTBOOK SERVES AS A TUTORIAL FOR ENGINEERING STUDENTS. FUNDAMENTAL CIRCUIT ANALYSIS METHODS ARE PRESENTED AT A LEVEL ACCESSIBLE TO STUDENTS WITH MINIMAL BACKGROUND IN ENGINEERING. THE EMPHASIS OF THE BOOK IS ON BASIC CONCEPTS, USING MATHEMATICAL EQUATIONS ONLY AS NEEDED. ANALOGIES TO EVERYDAY LIFE ARE USED THROUGHOUT THE BOOK IN ORDER TO MAKE THE MATERIAL EASIER TO UNDERSTAND. EVEN THOUGH THIS BOOK FOCUSES ON THE FUNDAMENTALS, IT REVEALS THE AUTHORS' DEEP INSIGHT INTO THE RELATIONSHIP BETWEEN THE PHASOR, FOURIER TRANSFORM, AND LAPLACE TRANSFORM, AND EXPLAINS TO STUDENTS WHY THESE TRANSFORMS ARE EMPLOYED IN CIRCUIT ANALYSIS.

COMMUNICATION ENGINEERING PRINCIPLES - IFOK OTUNG 2021-01-19

FOR THOSE SEEKING A THOROUGH GROUNDING IN MODERN COMMUNICATION ENGINEERING PRINCIPLES DELIVERED WITH UNRIVALED CLARITY USING AN ENGINEERING-FIRST APPROACH COMMUNICATION ENGINEERING PRINCIPLES: 2ND EDITION PROVIDES READERS WITH COMPREHENSIVE BACKGROUND INFORMATION AND INSTRUCTION IN THE RAPIDLY EXPANDING AND GROWING FIELD OF COMMUNICATION ENGINEERING. THIS BOOK IS WELL-SUITED AS A TEXTBOOK IN ANY OF THE FOLLOWING COURSES OF STUDY: TELECOMMUNICATION MOBILE COMMUNICATION SATELLITE COMMUNICATION OPTICAL COMMUNICATION ELECTRONICS COMPUTER SYSTEMS PRIMARILY DESIGNED AS A TEXTBOOK FOR UNDERGRADUATE PROGRAMS, COMMUNICATION ENGINEERING PRINCIPLES: 2ND EDITION CAN ALSO BE HIGHLY VALUABLE IN A VARIETY OF MSc PROGRAMS. COMMUNICATION ENGINEERING PRINCIPLES GROUNDS ITS READERS IN THE CORE CONCEPTS AND THEORY REQUIRED FOR AN IN-DEPTH UNDERSTANDING OF THE SUBJECT. IT ALSO COVERS MANY OF THE MODERN, PRACTICAL TECHNIQUES USED IN THE FIELD. ALONG WITH AN OVERVIEW OF COMMUNICATION SYSTEMS, THE BOOK COVERS TOPICS LIKE TIME AND FREQUENCY DOMAINS ANALYSIS OF SIGNALS AND SYSTEMS, TRANSMISSION MEDIA, NOISE IN COMMUNICATION SYSTEMS, ANALOGUE AND DIGITAL MODULATION, PULSE SHAPING AND DETECTION, AND MANY OTHERS.

FUNDAMENTALS OF ELECTRICAL ENGINEERING AND ELECTRONICS - BL THERAJA 2006-06

THIS BOOK EXTENSIVE PRUNING OF THE SOLVED EXAMPLES IN THE TEXT. MAJORITY OF THE OLD EXAMPLES HAVE BEEN REPLACED BY QUESTIONS SET IN THE LATEST EXAMINATION PAPERS OF DIFFERENT ENGINEERING COLLEGES AND TECHNICAL INSTITUTIONS.

ELECTRONICS ENGINEERING - SACHAN 2019-09

IN RECENT YEARS BASIC ELECTRONICS ENGINEERING ARE BEING USED EXTENSIVELY IN COMPUTERS, MICROPROCESSOR AND VERY LARGE SCALE INTEGRATION (VLSI) DESIGN AND DIGITAL SIGNAL PROCESSING RESEARCH AND MANY OTHER THINGS. THIS RAPID PROGRESS IN ELECTRONICS ENGINEERING HAS CREATED AN INCREASING DEMAND FOR TRAINED ELECTRONICS ENGINEERING PERSONNEL. THIS BOOK IS INTENDED FOR THE UNDERGRADUATE AND POSTGRADUATE STUDENTS SPECIALIZING IN ELECTRONICS ENGINEERING. IT WILL ALSO SERVE AS REFERENCE MATERIAL FOR ENGINEERS EMPLOYED IN INDUSTRY. THE FUNDAMENTAL CONCEPTS AND PRINCIPLES BEHIND ELECTRONICS ENGINEERING ARE EXPLAINED IN A SIMPLE, EASY- TO- UNDERSTAND MANNER. EACH CHAPTER CONTAINS A LARGE NUMBER OF SOLVED EXAMPLE OR PROBLEM WHICH WILL HELP THE STUDENTS IN PROBLEM SOLVING AND DESIGNING OF ELECTRONICS SYSTEM. THIS TEXT BOOK IS ORGANIZED INTO THIRTEEN CHAPTERS. CHAPTER 0: FAMOUS SCIENTISTS AND INVENTORS WHO SHAPED ELECTRONICS ENGINEERING CHAPTER 1: INTRODUCTION TO ELECTRONICS, CURRENT AND VOLTAGE SOURCES AND SEMICONDUCTOR PHYSICS CHAPTER 2: SEMICONDUCTOR DIODE AND ITS APPLICATIONS CHAPTER 3: BIPOLAR JUNCTION TRANSISTOR (BJT), TRANSISTOR BIASING AND STABILIZATION OF OPERATING POINT CHAPTER 4: APPLICATIONS OF BJTs CHAPTER 5: FIELD EFFECT TRANSISTOR (FET) & SPECIAL DIODES AND ITS APPLICATIONS CHAPTER 6: ELECTRONICS OSCILLATORS & BASICS OF SCR & UJT CHAPTER 7: NUMBER SYSTEMS AND BOOLEAN ALGEBRA CHAPTER 8: COMBINATIONAL CIRCUITS CHAPTER 9: SEQUENTIAL CIRCUITS CHAPTER 10: DIGITAL LOGIC FAMILIES CHAPTER 11: ELECTRONICS INSTRUMENTS & MEASUREMENTS CHAPTER 12: BASICS & APPLICATIONS OF COMMUNICATION SYSTEM CHAPTER 13: BASICS & APPLICATIONS OF OPERATIONAL AMPLIFIER THE BOOK ELECTRONICS ENGINEERING IS WRITTEN TO CATER TO THE NEEDS OF THE UNDERGRADUATE COURSES IN THE DISCIPLINE OF ELECTRONICS & COMMUNICATION ENGINEERING, COMPUTER SCIENCE ENGINEERING, INFORMATION TECHNOLOGY, ELECTRONICS & INSTRUMENTATION ENGINEERING, ELECTRICAL & ELECTRONICS ENGINEERING AND POSTGRADUATE STUDENTS SPECIALIZING IN ELECTRONICS. IT WILL ALSO SERVE AS REFERENCE MATERIAL FOR ENGINEERS EMPLOYED IN INDUSTRY. THE FUNDAMENTAL CONCEPTS AND PRINCIPLES BEHIND DIGITAL LOGIC DESIGNS ARE EXPLAINED IN A SIMPLE, EASY- TO- UNDERSTAND MANNER. THE LAST CHAPTER GIVES THE POSSIBLE EXPERIMENTS OF DIGITAL LOGIC DESIGN THAT CAN BE DONE BY STUDENTS OF B.E./B.TECH LEVEL. SALIENT FEATURES * DETAILED COVERAGE OF ELECTRONICS SYSTEM, INSTRUMENTATIONS, COMMUNICATION, SEQUENTIAL LOGIC CIRCUITS, COMBINATIONAL LOGIC CIRCUITS, OPERATIONAL AMPLIFIER & APPLICATIONS OF BJT AND DIODE. * COMPREHENSIVE CHAPTER ON DIGITAL LOGIC FAMILIES, ELECTRONICS MEASUREMENT, FEEDBACK AND OSCILLATORS. * EACH CHAPTER CONTAINS A LARGE NUMBER OF SOLVED EXAMPLE OR OBJECTIVE TYPE'S PROBLEM WHICH WILL HELP THE STUDENTS IN PROBLEM SOLVING AND DESIGNING OF DIGITAL SYSTEM. * CLEAR PERCEPTION OF THE VARIOUS PROBLEMS WITH A LARGE NUMBER OF NEAT, WELL DRAWN AND ILLUSTRATIVE DIAGRAMS. * SIMPLE LANGUAGE, EASY- TO- UNDERSTAND MANNER. I DO HOPE THAT THE TEXT BOOK IN THE PRESENT FORM WILL MEET THE REQUIREMENT OF THE STUDENTS DOING GRADUATION IN ELECTRONICS & COMMUNICATION ENGINEERING, COMPUTER SCIENCE ENGINEERING, INFORMATION TECHNOLOGY, ELECTRONICS & INSTRUMENTATION ENGINEERING AND ELECTRICAL & ELECTRONICS ENGINEERING. I SHALL APPRECIATE ANY SUGGESTIONS FROM STUDENTS AND FACULTY MEMBERS ALIKE SO THAT WE CAN STRIVE TO MAKE THE TEXT BOOK MORE USEFUL IN THE EDITION TO COME.

BASIC ELECTRONICS - P. YADAV 2005

THE PRESENT TITLE BASIC ELECTRONICS HAS BEEN DESIGNED FOR UNDERGRADUATE STUDENTS OF ALL COLLEGE AND ENGINEERING. THIS BOOK ON BASIC ELECTRONICS HAS BEEN WRITTEN STRICTLY IN ACCORDANCE WITH THE SYLLABUS PRESCRIBED BY THE TECHNICAL UNIVERSITIES OF INDIA. EVERY CONCEPT INCLUDED IN THIS TEXT HAS BEEN EXPLAINED IN A LUCID MANNER BY USING SIMPLE LANGUAGE WHENEVER NECESSARY, SIMPLE DIAGRAMS HAVE BEEN INTRODUCED TO MAKE THE CONCEPTS ILLUSTRATIVE. BY KEEPING IN MIND THE RANGE OF POTENTIAL USERS, THE PRESENT TEXT HAS BEEN DESIGNED FOR THE LARGEST GROUP OF STUDENTS TAKING KEEN INTEREST IN THE FIELD OF ELECTRONICS. THIS BOOK HAS BEEN WRITTEN IN A VERY SIMPLE AND LUCID MANNER. EVERY EFFORT HAS BEEN MADE TO MAKE THE TREATMENTS SIMPLE AND COMPREHENSIVE. THROUGHOUT THIS BOOK, THE STRESS HAS BEEN GIVEN ON FUNDAMENTAL CONCEPTS THROUGH ILLUSTRATIVE EXAMPLES. NEAT AND CLEAR DIAGRAMS HAVE BEEN USED FOR EXPLANATION. CONTENTS: ENERGY BANDS IN SOLIDS, TRANSPORT MECHANISM IN SEMICONDUCTOR, JUNCTION DIODES, BIPOLAR JUNCTION TRANSISTORS, TRANSISTORS AS AN AMPLIFIER, BINARY SYSTEM AND LOGIC CIRCUIT, OPERATIONAL AMPLIFIERS, ELECTRONIC INSTRUMENTS.

GATE 2020 ELECTRONICS & COMMUNICATION ENGINEERING GUIDE WITH 10 PRACTICE SETS (6 IN BOOK + 4 ONLINE) 7TH EDITION - DISHA EXPERTS 2019-06-03

* 'GATE ELECTRONICS & COMMUNICATION ENGINEERING GUIDE 2019 WITH 10 PRACTICE SETS - 6 IN BOOK + 4 ONLINE TESTS - 6TH EDITION' FOR GATE EXAM CONTAINS EXHAUSTIVE THEORY, PAST YEAR QUESTIONS, PRACTICE PROBLEMS AND MOCK TESTS. * COVERS PAST 14 YEARS QUESTIONS. * EXHAUSTIVE EXERCISE CONTAINING 100-150 QUESTIONS IN EACH CHAPTER. IN ALL CONTAINS AROUND 5200 MCQs. * SOLUTIONS PROVIDED FOR EACH QUESTION IN DETAIL. * THE BOOK PROVIDES 10 PRACTICE SETS - 6 IN BOOK + 4 ONLINE TESTS DESIGNED EXACTLY ON THE LATEST PATTERN OF GATE EXAM.

BASICS OF ELECTRICAL ELECTRONICS AND COMMUNICATION ENGINEERING - DR. K. A. NAVAS 2010-08-01

THE BOOK IS WRITTEN PER THE SYLLABUS OF FIRST YEAR ENGINEERING DEGREE COURSE FOR VARIOUS UNIVERSITIES. IT COVERS BASIC TOPICS OF ELECTRICAL, ELECTRONICS AND COMMUNICATION ENGINEERING. IT ALSO INCLUDES WORKED OUT EXAMPLES, UNIVERSITY EXAMINATION QUESTIONS AND ANSWERS, EXERCISE, ETC IN EVERY CHAPTER. THIS BOOK IS SUITABLE FOR COURSE IN BASIC ELECTRICAL AND ELECTRONICS ENGINEERING UNDER VARIOUS UNIVERSITIES. AUTHORS HAVE TRIED TO ELUCIDATE THE TOPICS IN SUCH A WAY THAT EVEN A MEDIOCRE STUDENT CAN ASSIMILATE THEM. MANY SOLVED PROBLEMS, SAMPLE QUESTION PAPERS AND EXERCISE GIVEN IN EVERY SECTION WILL PROVIDE A THOROUGH UNDERSTANDING OF THE TOPICS. OTHER FEATURES INCLUDE ATTRACTIVE WRITING STYLE, WELL STRUCTURED EQUATIONS AND NUMERICAL EXAMPLES, PICTURES OF HIGH CLARITY, ETC. THIS BOOK IS ONE AMONG PRESCRIBED TEXTBOOKS FOR THE SYLLABUS OF BIT, MESRA, RANCHI.

GROB'S BASIC ELECTRONICS - MITCHEL E. SCHULTZ 2011

GROB'S BASIC ELECTRONICS, ELEVENTH EDITION, IS WRITTEN FOR THE BEGINNING STUDENT PURSUING A TECHNICAL DEGREE IN ELECTRONICS TECHNOLOGY. IN COVERING THE

FUNDAMENTALS OF ELECTRICITY AND ELECTRONICS, THIS TEXT FOCUSES ON ESSENTIAL TOPICS FOR THE TECHNICIAN, AND THE ALL-IMPORTANT DEVELOPMENT OF TESTING AND TROUBLESHOOTING SKILLS. THIS HIGHLY PRACTICAL APPROACH COMBINES CLEAR, CAREFULLY-LAID-OUT EXPLANATIONS OF KEY TOPICS WITH GOOD, WORKED-OUT EXAMPLES AND PROBLEMS TO SOLVE. REVIEW PROBLEMS THAT FOLLOW EACH SECTION REINFORCE THE MATERIAL JUST COMPLETED, MAKING THIS A VERY STUDENT-FRIENDLY TEXT. IT IS A THOROUGHLY ACCESSIBLE INTRODUCTION TO BASIC DC AND AC CIRCUITS AND ELECTRONIC DEVICES. THIS ELEVENTH EDITION OF THIS LONGTIME BEST-SELLING TEXT HAS BEEN REFINED, UPDATED AND MADE MORE STUDENT FRIENDLY. THE FOCUS ON ABSOLUTELY ESSENTIAL KNOWLEDGE FOR TECHNICIANS, AND FOCUS ON REAL-WORLD APPLICATIONS OF THESE BASIC CONCEPTS MAKES IT IDEAL FOR TODAY'S TECHNOLOGY STUDENTS.

BASIC ELECTRONIC CIRCUITS - A. H. Hoskyns 2012-06-28

IN THE PAST, THE TEACHING OF ELECTRICITY AND ELECTRONICS HAS MORE OFTEN THAN NOT BEEN CARRIED OUT FROM A THEORETICAL AND OFTEN HIGHLY ACADEMIC STANDPOINT. FUNDAMENTALS AND BASIC CONCEPTS HAVE OFTEN BEEN PRESENTED WITH NO INDICATION OF THEIR PRACTICAL APPLICATIONS, AND ALL TOO FREQUENTLY THEY HAVE BEEN ILLUSTRATED BY ARTIFICIALLY CONTRIVED LABORATORY EXPERIMENTS BEARING LITTLE RELATIONSHIP TO THE OUTSIDE WORLD. THE COURSE COMES IN THE FORM OF FOURTEEN FAIRLY OPEN-ENDED CONSTRUCTIONAL EXPERIMENTS OR PROJECTS. EACH EXPERIMENT HAS ASSOCIATED WITH IT A CONSTRUCTION EXERCISE AND AN EXPLANATION. THE BASIC IDEA BEHIND THIS DUAL PRESENTATION IS THAT THE STUDENT CAN EMBARK ON EACH CIRCUIT FOLLOWING ONLY THE BRIEFEST POSSIBLE INSTRUCTIONS AND THAT AN OPEN-ENDED APPROACH IS THEREBY NOT

PREJUDICED BY AN INITIAL LENGTHY ENCOUNTER WITH THE THEORY BEHIND THE PROJECT; THIS BEING A SURE WAY TO DAMPEN ENTHUSIASM AT THE OUTSET. AS THE INVESTIGATION PROGRESSES, QUESTIONS INEVITABLY ARISE. DESCRIPTIONS OF THE PHENOMENA ENCOUNTERED IN THE EXPERIMENTS ARE THEREFORE GIVEN IN THE EXPLANATIONS. ALTHOUGH THESE WERE ORIGINALLY INTENDED TO BE FOR THE TEACHER'S GUIDANCE THEY HAVE BEEN FOUND, IN FACT, TO BE QUITE SUITABLE FOR USE BY THE STUDENT. IN THE EXPLANATIONS MATHEMATICS HAS BEEN ELIMINATED WHEREVER POSSIBLE, MECHANISTIC DESCRIPTIONS OF PHENOMENA BEING PREFERRED IN ALL CASES. STRESS IS THEREBY PLACED ON CONCEPTS RATHER THAN ON MERE ALGEBRAIC RELATIONSHIPS. IT IS HOPED THAT STUDENTS OF WEAK MATHEMATICAL BACKGROUND WILL, AS A RESULT, NOT BE PREVENTED FROM FOLLOWING THE EXPLANATIONS AND DERIVING SOME BENEFIT FROM THESE.

QUANTUM INFORMATION - GERNOT ALBER 2014-01-15

BASIC ELECTRONICS - K. Uma Rao 2015-09

THIS BOOK PRESENTS THE BASIC CONCEPTS OF ELECTRONIC DEVICES AND CIRCUITS IN AN EASY TO UNDERSTAND MANNER. THE MAIN TOPICS COVERED INCLUDE SEMICONDUCTOR DIODES AND THEIR APPLICATION IN RECTIFIERS AND VOLTAGE REGULATORS; TRANSISTORS, THEIR CONFIGURATIONS AND APPLICATION IN AMPLIFIER AND OSCILLATOR CIRCUITS; OPERATIONAL AMPLIFIERS AND THEIR APPLICATIONS; AND NUMBER SYSTEMS AND THE FUNDAMENTALS OF ANALOGUE COMMUNICATION CIRCUITS AND BASIC TRANSDUCERS. A NUMBER OF DESIGN AND ANALYTIC NUMERICAL PROBLEMS HAVE BEEN INCLUDED TO HELP THE STUDENT UNDERSTAND THE APPLICATION OF THE CONCEPTS. THE BOOK WILL BE USEFUL FOR THE FIRST YEAR COURSE IN ENGINEERING.