

# Radar Engineering By Raju

AS RECOGNIZED, ADVENTURE AS CAPABLY AS EXPERIENCE NOT QUITE LESSON, AMUSEMENT, AS SKILLFULLY AS ACCORD CAN BE GOTTEN BY JUST CHECKING OUT A BOOK **RADAR ENGINEERING BY RAJU** AFTER THAT IT IS NOT DIRECTLY DONE, YOU COULD BOW TO EVEN MORE ON THIS LIFE, CONCERNING THE WORLD.

WE ALLOW YOU THIS PROPER AS WITHOUT DIFFICULTY AS SIMPLE HABIT TO GET THOSE ALL. WE FIND THE MONEY FOR RADAR ENGINEERING BY RAJU AND NUMEROUS BOOKS COLLECTIONS FROM FICTIONS TO SCIENTIFIC RESEARCH IN ANY WAY. IN THE MIDST OF THEM IS THIS RADAR ENGINEERING BY RAJU THAT CAN BE YOUR PARTNER.

**REINFORCED CONCRETE DESIGN: PRINCIPLES AND PRACTICE** - RAJU N. KRISHNA 2007

THIS BOOK SYSTEMATICALLY EXPLAINS THE BASIC PRINCIPLES AND TECHNIQUES INVOLVED IN THE DESIGN OF REINFORCED CONCRETE STRUCTURES. IT EXHAUSTIVELY COVERS THE FIRST COURSE ON THE SUBJECT AT B.E./ B.TECH LEVEL. IMPORTANT FEATURES: \* EXPOSITION IS BASED ON THE LATEST INDIAN STANDARD CODE IS: 456-2000. \* LIMIT STATE METHOD EMPHASIZED THROUGHOUT THE BOOK. \* WORKING STRESS METHOD ALSO EXPLAINED. \* DETAILING ASPECTS OF REINFORCEMENT HIGHLIGHTED. \* INCORPORATES EARTHQUAKE RESISTANT DESIGN. \* INCLUDES A LARGE NUMBER OF SOLVED EXAMPLES, PRACTICE PROBLEMS AND ILLUSTRATIONS. THE BOOK WOULD SERVE AS A COMPREHENSIVE TEXT FOR UNDERGRADUATE CIVIL ENGINEERING STUDENTS. PRACTISING ENGINEERS WOULD ALSO FIND IT A VALUABLE REFERENCE SOURCE.

**ESTIMATING IN HEAVY CONSTRUCTION** - DIETER JACOB 2016-11-14

THIS BOOK PRESENTS THE THEORETICAL BACKGROUND AS WELL AS BEST PRACTICE EXAMPLES OF ESTIMATING IN HEAVY CONSTRUCTION. THE EXAMPLES STEM FROM PRACTITIONERS IN INTERNATIONAL LARGE-SCALE CONSTRUCTION PROJECTS. AS DISTINCT FROM OTHER PUBLICATIONS ON ESTIMATING, THIS BOOK PRESENTS SPECIFIC NUMBERS AND COSTS ARE CALCULATED PRECISELY. IN THIS WAY THE BOOK HELPS TO AVOID ERRORS IN THE ESTIMATING OF CONSTRUCTION PROJECTS LIKE ROADS, BRIDGES, TUNNELS, AND FOUNDATIONS.

**SMART TRENDS IN COMPUTING AND COMMUNICATIONS** - YU-DONG ZHANG 2021-10-25

THIS BOOK GATHERS HIGH-QUALITY PAPERS PRESENTED AT THE FIFTH INTERNATIONAL CONFERENCE ON SMART TRENDS IN COMPUTING AND COMMUNICATIONS (SMARTCOM 2021), ORGANIZED BY GLOBAL KNOWLEDGE RESEARCH FOUNDATION (GR FOUNDATION) FROM MARCH 2 - 3, 2021. IT COVERS THE STATE OF THE ART AND EMERGING TOPICS IN INFORMATION, COMPUTER COMMUNICATIONS, AND EFFECTIVE STRATEGIES FOR THEIR USE IN ENGINEERING AND MANAGERIAL APPLICATIONS. IT ALSO EXPLORES AND DISCUSSES THE LATEST TECHNOLOGICAL ADVANCES IN, AND FUTURE DIRECTIONS FOR, INFORMATION AND KNOWLEDGE COMPUTING AND ITS APPLICATIONS.

*DIRECTORY - THE INSTITUTION OF ENGINEERS (INDIA)* - INSTITUTION OF ENGINEERS (INDIA)

1977

**HANDBOOK OF MILITARY INDUSTRIAL ENGINEERING** - ADEDEJI B. BADIRU 2009-02-25

IN LIGHT OF INCREASING ECONOMIC AND INTERNATIONAL THREATS, MILITARY OPERATIONS MUST BE EXAMINED WITH A CRITICAL EYE IN TERMS OF PROCESS DESIGN, MANAGEMENT, IMPROVEMENT, AND CONTROL. ALTHOUGH THE PENTAGON AND MILITARIES AROUND THE WORLD HAVE UTILIZED INDUSTRIAL ENGINEERING (IE) CONCEPTS TO ACHIEVE THIS GOAL FOR DECADES, THERE HAS BEEN NO SINGLE RESOURCE TO BRING TOGETHER IE APPLICATIONS WITH A FOCUS ON IMPROVING MILITARY OPERATIONS. UNTIL NOW. WINNER OF THE 2010 IIE/JOINT PUBLISHERS BOOK-OF-THE-YEAR AWARD THE HANDBOOK OF MILITARY INDUSTRIAL ENGINEERING IS THE FIRST COMPILATION OF THE FUNDAMENTAL TOOLS, PRINCIPLES, AND MODELING TECHNIQUES OF INDUSTRIAL ENGINEERING WITH SPECIFIC AND DIRECT APPLICATION TO MILITARY SYSTEMS. GLOBALLY RESPECTED IE EXPERTS PROVIDE PROVEN STRATEGIES THAT CAN HELP ANY MILITARY ORGANIZATION EFFECTIVELY CREATE, ADAPT, UTILIZE, AND DEPLOY RESOURCES, TOOLS, AND TECHNOLOGY. TOPICS COVERED INCLUDE: SUPPLY CHAIN MANAGEMENT AND DECISION MAKING LEAN ENTERPRISE CONCEPTS FOR MILITARY OPERATIONS MODELING AND OPTIMIZATION ECONOMIC PLANNING FOR MILITARY SYSTEMS CONTINGENCY PLANNING AND LOGISTICS HUMAN FACTORS AND ERGONOMICS INFORMATION MANAGEMENT AND CONTROL CIVILIAN ENGINEERS WORKING ON SYSTEMS ANALYSIS, PROJECT MANAGEMENT, PROCESS DESIGN, AND OPERATIONS RESEARCH WILL ALSO FIND INSPIRATION AND USEFUL IDEAS ON HOW TO EFFECTIVELY APPLY THE CONCEPTS COVERED FOR NON-MILITARY USES. ON THE BATTLEFIELD AND IN BUSINESS, VICTORY GOES TO THOSE WHO UTILIZE THEIR RESOURCES MOST EFFECTIVELY, ESPECIALLY IN TIMES OF OPERATIONAL CRISIS. THE HANDBOOK OF MILITARY INDUSTRIAL ENGINEERING IS A COMPLETE REFERENCE THAT WILL SERVE AS AN INVALUABLE RESOURCE FOR THOSE LOOKING TO MAKE THE OPERATIONAL IMPROVEMENTS NEEDED TO ACCOMPLISH THE MISSION AT HAND.

*RADAR ENGINEERING* - RAJU 2013-12-30

THIS BOOK CONTAINS THE APPLICATIONS OF RADARS, FUNDAMENTALS AND ADVANCED

CONCEPTS OF CW, CW DOPPLER, FMCW, PULSED DOPPLER, MTI, MST AND PHASED ARRAY RADARS ETC. IT ALSO INCLUDES EFFECT OF DIFFERENT PARAMETERS ON RADAR OPERATION, VARIOUS LOSSES IN RADAR SYSTEMS, RADAR TRANSMITTERS, RADAR RECEIVERS, NAVIGATIONAL AIDS AND RADAR ANTENNAS. KEY FEATURES : NINE CHAPTERS EXCLUSIVELY SUITABLE FOR ONE SEMESTER COURSE IN RADAR ENGINEERING. MORE THAN 100 SOLVED PROBLEMS. MORE THAN 1000 OBJECTIVE QUESTIONS WITH ANSWERS. MORE THAN 600 MULTIPLE CHOICE QUESTIONS WITH ANSWERS. FIVE MODEL QUESTION PAPERS. LOGICAL AND SELF-UNDERSTANDABLE SYSTEM DESCRIPTION.

**ANTENNA THEORY** - CONSTANTINE A. BALANIS 2012-12-03

THE DISCIPLINE OF ANTENNA THEORY HAS EXPERIENCED VAST TECHNOLOGICAL CHANGES. IN RESPONSE, CONSTANTINE BALANIS HAS UPDATED HIS CLASSIC TEXT, ANTENNA THEORY, OFFERING THE MOST RECENT LOOK AT ALL THE NECESSARY TOPICS. NEW MATERIAL INCLUDES SMART ANTENNAS AND FRACTAL ANTENNAS, ALONG WITH THE LATEST APPLICATIONS IN WIRELESS COMMUNICATIONS. MULTIMEDIA MATERIAL ON AN ACCOMPANYING CD PRESENTS POWERPOINT VIEWGRAPHS OF LECTURE NOTES, INTERACTIVE REVIEW QUESTIONS, JAVA ANIMATIONS AND APPLETS, AND MATLAB FEATURES. LIKE THE PREVIOUS EDITIONS, ANTENNA THEORY, THIRD EDITION MEETS THE NEEDS OF ELECTRICAL ENGINEERING AND PHYSICS STUDENTS AT THE SENIOR UNDERGRADUATE AND BEGINNING GRADUATE LEVELS, AND THOSE OF PRACTICING ENGINEERS AS WELL. IT IS A BENCHMARK TEXT FOR MASTERING THE LATEST THEORY IN THE SUBJECT, AND FOR BETTER UNDERSTANDING THE TECHNOLOGICAL APPLICATIONS. AN INSTRUCTOR'S MANUAL PRESENTING DETAILED SOLUTIONS TO ALL THE PROBLEMS IN THE BOOK IS AVAILABLE FROM THE WILEY EDITORIAL DEPARTMENT.

**CAD/CAM/CIM** - P. RADHAKRISHNAN 2008

THE TECHNOLOGY OF CAD/CAM/CIM DEALS WITH THE CREATION OF INFORMATION AT DIFFERENT STAGES FROM DESIGN TO MARKETING AND INTEGRATION OF INFORMATION AND ITS EFFECTIVE COMMUNICATION AMONG THE VARIOUS ACTIVITIES LIKE DESIGN, PRODUCT DATA MANAGEMENT, PROCESS PLANNING, PRODUCTION PLANNING AND CONTROL, MANUFACTURING, INSPECTION, MATERIALS HANDLING ETC., WHICH ARE INDIVIDUALLY CARRIED OUT THROUGH COMPUTER SOFTWARE. SEAMLESS TRANSFER OF INFORMATION FROM ONE APPLICATION TO ANOTHER IS WHAT IS AIMED AT. THIS BOOK GIVES A DETAILED ACCOUNT OF THE VARIOUS TECHNOLOGIES WHICH FORM COMPUTER BASED AUTOMATION OF MANUFACTURING ACTIVITIES. THE ISSUES PERTAINING TO GEOMETRIC MODEL CREATION, STANDARDISATION OF GRAPHICS DATA, COMMUNICATION, MANUFACTURING INFORMATION CREATION AND MANUFACTURING CONTROL HAVE BEEN ADEQUATELY DEALT WITH. PRINCIPLES OF CONCURRENT ENGINEERING HAVE BEEN EXPLAINED AND LATEST SOFTWARE IN THE VARIOUS APPLICATION AREAS HAVE BEEN INTRODUCED. THE BOOK IS WRITTEN WITH TWO OBJECTIVES TO SERVE AS A TEXTBOOK FOR STUDENTS STUDYING CAD/CAM/CIM AND AS A REFERENCE BOOK FOR PROFESSIONAL ENGINEERS.

**SENSING AND MONITORING TECHNOLOGIES FOR MINES AND HAZARDOUS AREAS** - SWADESH

CHAULYA 2016-10-27

SENSING AND MONITORING TECHNOLOGIES FOR MINES AND HAZARDOUS AREAS: MONITORING AND PREDICTION TECHNOLOGIES PRESENTS THE FUNDAMENTALS OF MINING RELATED GEOTECHNICAL RISK AND HOW THE LATEST ADVANCES IN SENSING AND DATA COMMUNICATION CAN BE USED BOTH TO PREVENT ACCIDENTS AND PROVIDE EARLY WARNINGS. OPENCAST MINING OPERATIONS INVOLVE HUGE QUANTITIES OF OVERBURDEN REMOVAL, DUMPING, AND BACKFILLING IN EXCAVATED AREAS. SUBSTANTIAL INCREASES IN THE RATE OF ACCUMULATION OF WASTE DUMPS IN RECENT YEARS HAS RESULTED IN GREATER HEIGHT OF DUMPS AND ALSO HAS GIVEN RISE TO THE DANGER OF DUMP FAILURES AS STEEPER OPEN PIT SLOPES ARE PRONE TO FAILURE. THESE FAILURES LEAD TO LOSS OF VALUABLE HUMAN LIVES AND DAMAGE TO MINING MACHINERY. THIS BOOK PRESENTS THE MOST RECENT ADVANCES IN GAS SENSORS, METHANE DETECTORS, AND POWER CUT-OFF SYSTEMS. IT ALSO INTRODUCES MONITORING OF THE GAS STRATA AND ENVIRONMENT, AND AN OVERVIEW OF THE USE OF INTERNET OF THINGS AND CLOUD COMPUTING FOR MINING SENSING AND SURVEILLANCE PURPOSES. TARGETED AT GEOTECHNICAL AND MINING ENGINEERS, THIS VOLUME COVERS THE LATEST FINDINGS AND TECHNOLOGY TO PREVENT MINING ACCIDENTS AND MITIGATE THE INHERENT RISK OF THE ACTIVITY. PRESENTS COMPLETE DETAILS OF A REAL-TIME SLOPE STABILITY MONITORING SYSTEM USING WIRELESS SENSOR NETWORKING AND PREDICTION TECHNIQUE BASED ON MULTIVARIATE STATISTICAL ANALYSIS OF VARIOUS PARAMETERS AND ANALYTICAL HIERARCHY PROCESS METHODS DISCUSSES INNOVATIVE IDEAS AND NEW CONCEPTS OF SENSING TECHNOLOGIES, MINE TRANSPORT SURVEILLANCE, DIGITAL MINING, AND CLOUD COMPUTING TO IMPROVE SAFETY AND PRODUCTIVITY IN MINING INDUSTRY INCLUDES SLOPE STABILITY PREDICTION SOFTWARE, DOWNLOADABLE THROUGH A COMPANION WEBSITE, WHICH CAN BE USED FOR MONITORING, ANALYZING, AND STORING DIFFERENT SENSORS AND PROVIDING AUDIO-VISUAL, SMS, AND EMAIL ALERTS COVERS THE LATEST FINDINGS AND TECHNOLOGY TO PREVENT MINING ACCIDENTS AND MITIGATE THE INHERENT RISK

**FUNDAMENTAL PRINCIPLES OF RADAR** - HABIBUR RAHMAN 2019-05-15

THE IMPORTANT AND FASCINATING TOPICS OF RADAR ENJOY AN EXTENSIVE AUDIENCE IN INDUSTRY AND GOVERNMENT BUT DESERVE MORE ATTENTION IN UNDERGRADUATE EDUCATION TO BETTER PREPARE GRADUATING ENGINEERS TO MEET THE DEMANDS OF MODERN MANKIND. RADAR IS NOT ONLY ONE OF THE MAJOR APPLICATIONS OF ELECTRONICS AND ELECTROMAGNETIC COMMUNICATIONS, BUT IT IS ALSO A MATURE SCIENTIFIC DISCIPLINE WITH SIGNIFICANT THEORETICAL AND MATHEMATICAL FOUNDATIONS THAT WARRANT AN INTELLECTUAL AND EDUCATIONAL CHALLENGE. FUNDAMENTAL PRINCIPLES OF RADAR IS A TEXTBOOK PROVIDING A FIRST EXPOSURE TO RADAR PRINCIPLES. IT PROVIDES A BROAD CONCEPT UNDERLYING THE BASIC PRINCIPLE OF OPERATIONS OF MOST EXISTING RADAR SYSTEMS AND MAINTAINS A GOOD BALANCE OF MATHEMATICAL RIGOR TO CONVINCING READERS WITHOUT LOSING INTEREST. THE BOOK PROVIDES AN EXTENSIVE EXPOSITION OF THE TECHNIQUES CURRENTLY BEING USED FOR RADAR SYSTEM DESIGN, ANALYSIS, AND EVALUATION. IT PRESENTS A COMPREHENSIVE SET OF RADAR PRINCIPLES, INCLUDING ALL

FEATURES OF MODERN RADAR APPLICATIONS, WITH THEIR UNDERLYING DERIVATIONS USING SIMPLE MATHEMATICS. COVERAGE IS LIMITED TO THE MAIN CONCEPTS OF RADAR IN ORDER TO PRESENT THEM IN A SYSTEMATIC AND ORGANIZED FASHION. TOPICS ARE TREATED NOT AS ABSTRUSE AND ESOTERIC TO THE POINT OF INCOMPREHENSIBILITY, BUT THE VERY COMPLEX AND RICH TECHNOLOGY OF RADAR IS DISTILLED INTO ITS FUNDAMENTALS. THE AUTHOR'S EMPHASIS IS ON CLARITY WITHOUT SACRIFICING RIGOR AND COMPLETENESS, THUS MAKING THE BOOK BROAD ENOUGH TO SATISFY A VARIETY OF BACKGROUNDS AND INTERESTS. THOROUGH DOCUMENTATION PROVIDES AN UNUSUAL DEGREE OF COMPLETENESS FOR A TEXTBOOK AT THIS LEVEL, WITH INTERESTING AND SOMETIMES THOUGHT-PROVOKING CONTENT TO MAKE THE SUBJECT EVEN MORE APPEALING. KEY FEATURES: COVERS A WIDE RANGE OF TOPICS IN RADAR SYSTEMS INCLUDES EXAMPLES AND EXERCISES TO REINFORCE THE CONCEPTS PRESENTED AND EXPLAIN THEIR APPLICATIONS PROVIDES SELF-CONTAINED CHAPTERS USEFUL FOR READERS SEEKING SELECTIVE TOPICS PROVIDES BROAD CONCEPTS UNDERLYING THE BASIC PRINCIPLES OF OPERATIONS OF MOST TYPES OF RADARS IN USE TODAY INCLUDES DOCUMENTATION TO LEAD TO FURTHER READING OF INTERESTING CONCEPTS AND APPLICATIONS

**HANDBOOK OF MICROWAVE AND RADAR ENGINEERING** - ANATOLY BELOUS 2021-01-04

THIS COMPREHENSIVE HANDBOOK PROVIDES READERS WITH A SINGLE-SOURCE REFERENCE TO THE THEORETICAL FUNDAMENTALS, PHYSICAL MECHANISMS AND PRINCIPLES OF OPERATION OF ALL KNOWN MICROWAVE DEVICES AND VARIOUS RADARS. THE AUTHOR DISCUSSES PROVEN METHODS OF COMPUTATION AND DESIGN DEVELOPMENT, PROCESS, SCHEMATIC, SCHEMATIC-TECHNICAL AND CONSTRUCTION PECULIARITIES OF EACH BREED OF THE MICROWAVE DEVICES, AS WELL AS THE MOST POPULAR AND ORIGINAL TECHNICAL SOLUTIONS FOR RADARS. COVERAGE ALSO INCLUDES THE HISTORY OF CREATION OF THE MOST WIDELY USED RADARS, AS WELL AS GUIDELINES FOR THEIR POTENTIAL UPGRADING. OFFERS READERS A COMPREHENSIVE, SYSTEMATIZED VIEW OF ALL CONTEMPORARY KNOWLEDGE, ACQUIRED DURING THE LAST 20 YEARS, ON RADARS AND RELATED DISCIPLINES; PROVIDES A SINGLE-SOURCE REFERENCE ON THE PHYSICAL MECHANISMS AND PRINCIPLES OF OPERATION OF THE BASIC COMPONENTS OF RADIO LOCATION DEVICES, INCLUDING THEORETICAL ASPECTS OF DESIGNING THE NECESSARY, HIGH-EFFICIENCY ELECTRONIC DEVICES AND SYSTEMS, AS WELL AS KEY, PRACTICAL METHODS OF COMPUTATION AND DESIGN; PRESENTS COMPLEX TOPICS USING SIMPLE LANGUAGE, MINIMIZING MATHEMATICS.

**ADVANCES IN COMMUNICATION, DEVICES AND NETWORKING** - RABINDRANATH BERA 2019-02-15

THE BOOK COVERS RECENT TRENDS IN THE FIELD OF DEVICES, WIRELESS COMMUNICATION AND NETWORKING. IT PRESENTS THE OUTCOMES OF THE INTERNATIONAL CONFERENCE IN COMMUNICATION, DEVICES AND NETWORKING (ICCDN 2018), WHICH WAS ORGANIZED BY THE DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY, SIKKIM, INDIA ON 2-3 JUNE, 2018. GATHERING CUTTING-EDGE RESEARCH PAPERS PREPARED BY RESEARCHERS, ENGINEERS AND INDUSTRY PROFESSIONALS, IT WILL HELP YOUNG AND EXPERIENCED SCIENTISTS AND DEVELOPERS ALIKE TO EXPLORE NEW

PERSPECTIVES, AND OFFER THEM INSPIRATIONS ON ADDRESSING REAL-WORLD PROBLEMS IN THE FIELD OF ELECTRONICS, COMMUNICATION, DEVICES AND NETWORKING.

**DATA ENGINEERING AND INTELLIGENT COMPUTING** - SURESH CHANDRA SATAPATHY 2017-05-31

THE BOOK IS A COMPILATION OF HIGH-QUALITY SCIENTIFIC PAPERS PRESENTED AT THE 3RD INTERNATIONAL CONFERENCE ON COMPUTER & COMMUNICATION TECHNOLOGIES (IC3T 2016). THE INDIVIDUAL PAPERS ADDRESS CUTTING-EDGE TECHNOLOGIES AND APPLICATIONS OF SOFT COMPUTING, ARTIFICIAL INTELLIGENCE AND COMMUNICATION. IN ADDITION, A VARIETY OF FURTHER TOPICS ARE DISCUSSED, WHICH INCLUDE DATA MINING, MACHINE INTELLIGENCE, FUZZY COMPUTING, SENSOR NETWORKS, SIGNAL AND IMAGE PROCESSING, HUMAN-COMPUTER INTERACTION, WEB INTELLIGENCE, ETC. AS SUCH, IT OFFERS READERS A VALUABLE AND UNIQUE RESOURCE.

**MEASURING PRECIPITATION FROM SPACE** - V. LEVIZZANI 2007-05-11

NO OTHER BOOK CAN OFFER SUCH A POWERFUL TOOL TO UNDERSTAND THE BASICS OF REMOTE SENSING FOR PRECIPITATION, TO MAKE USE OF EXISTING PRODUCTS AND TO HAVE A GLIMPSE OF THE NEAR FUTURE MISSIONS AND INSTRUMENTS. THIS BOOK FEATURES STATE-OF-THE-ART RAINFALL ESTIMATION ALGORITHMS, VALIDATION STRATEGIES, AND PRECIPITATION MODELING. MORE THAN 20 YEARS AFTER THE LAST BOOK ON THE SUBJECT THE WORLDWIDE PRECIPITATION COMMUNITY HAS PRODUCED A COMPREHENSIVE OVERVIEW OF ITS ACTIVITIES, ACHIEVEMENTS, ONGOING RESEARCH AND FUTURE PLANS.

**SYNTHETIC APERTURE RADAR IMAGING MECHANISM FOR OIL SPILLS** - MAGED MARGHANY 2019-08-21

SYNTHETIC APERTURE RADAR IMAGING MECHANISM FOR OIL SPILLS DELIVERS THE CRITICAL TOOL NEEDED TO UNDERSTAND THE LATEST TECHNOLOGY IN RADAR IMAGING OF OIL SPILLS, PARTICULARLY MICROWAVE RADAR AS A MAIN SOURCE TO UNDERSTAND ANALYSIS AND APPLICATIONS IN THE FIELD OF MARINE POLLUTION. FILLING THE GAP BETWEEN MODERN PHYSICS QUANTUM THEORY AND APPLICATIONS OF RADAR IMAGING OF OIL SPILLS, THIS REFERENCE IS PACKED WITH TECHNICAL DETAILS ASSOCIATED WITH THE POTENTIALITY OF SYNTHETIC APERTURE RADAR (SAR) AND THE KEY METHODS USED TO EXTRACT THE VALUE-ADDED INFORMATION NECESSARY, SUCH AS LOCATION, SIZE, PERIMETER AND CHEMICAL DETAILS OF THE OIL SLICK FROM SAR MEASUREMENTS. ROUNDING OUT WITH PRACTICAL SIMULATION TRAJECTORY MOVEMENTS OF OIL SPILLS USING RADAR IMAGES, THIS BOOK BRINGS AN EFFECTIVE NEW SOURCE OF TECHNOLOGY AND APPLICATIONS FOR TODAY'S OIL AND MARINE POLLUTION ENGINEERS. BRIDGES THE GAP BETWEEN THEORY AND APPLICATION OF THE TECHNIQUES INVOLVING OIL SPILL MONITORING HELPS READERS UNDERSTAND A NEW APPROACH TO FOUR-DIMENSIONAL AUTOMATIC DETECTION PROVIDES ADVANCED KNOWLEDGE ON IMAGE PROCESSING BASED ON INTELLIGENT LEARNING MACHINE ALGORITHMS AND NEW TECHNIQUES FOR DETECTION, SUCH AS QUANTUM AND MULTI-OBJECTIVE ALGORITHMS

**ADVANCED COMPOSITE MATERIALS FOR AEROSPACE ENGINEERING** - SOHEL RANA 2016-04-26

ADVANCED COMPOSITE MATERIALS FOR AEROSPACE ENGINEERING: PROCESSING, PROPERTIES AND APPLICATIONS PREDOMINATELY FOCUSES ON THE USE OF ADVANCED COMPOSITE MATERIALS IN AEROSPACE ENGINEERING. IT DISCUSSES BOTH THE BASIC AND ADVANCED REQUIREMENTS OF THESE MATERIALS FOR VARIOUS APPLICATIONS IN THE AEROSPACE SECTOR, AND INCLUDES DISCUSSIONS ON ALL THE MAIN TYPES OF COMMERCIAL COMPOSITES THAT ARE REVIEWED AND COMPARED TO THOSE OF METALS. VARIOUS ASPECTS, INCLUDING THE TYPE OF FIBRE, MATRIX, STRUCTURE, PROPERTIES, MODELING, AND TESTING ARE CONSIDERED, AS WELL AS MECHANICAL AND STRUCTURAL BEHAVIOR, ALONG WITH RECENT DEVELOPMENTS. THERE ARE SEVERAL NEW TYPES OF COMPOSITE MATERIALS THAT HAVE HUGE POTENTIAL FOR VARIOUS APPLICATIONS IN THE AEROSPACE SECTOR, INCLUDING NANOCOMPOSITES, MULTISCALE AND AUXETIC COMPOSITES, AND SELF-SENSING AND SELF-HEALING COMPOSITES, EACH OF WHICH IS DISCUSSED IN DETAIL. THE BOOK'S MAIN STRENGTH IS ITS COVERAGE OF ALL ASPECTS OF THE TOPICS, INCLUDING MATERIALS, DESIGN, PROCESSING, PROPERTIES, MODELING AND APPLICATIONS FOR BOTH EXISTING COMMERCIAL COMPOSITES AND THOSE CURRENTLY UNDER RESEARCH OR DEVELOPMENT. VALUABLE CASE STUDIES PROVIDE RELEVANT EXAMPLES OF VARIOUS PRODUCT DESIGNS TO ENHANCE LEARNING. CONTAINS CONTRIBUTIONS FROM LEADING EXPERTS IN THE FIELD PROVIDES A COMPREHENSIVE RESOURCE ON THE USE OF ADVANCED COMPOSITE MATERIALS IN THE AEROSPACE INDUSTRY DISCUSSES BOTH EXISTING COMMERCIAL COMPOSITE MATERIALS AND THOSE CURRENTLY UNDER RESEARCH OR DEVELOPMENT

MICROELECTRONICS, ELECTROMAGNETICS AND TELECOMMUNICATIONS - P. SATISH RAMA CHOWDARY 2020-06-24

THIS BOOK DISCUSSES THE LATEST DEVELOPMENTS AND OUTLINES FUTURE TRENDS IN THE FIELDS OF MICROELECTRONICS, ELECTROMAGNETICS AND TELECOMMUNICATION. IT INCLUDES ORIGINAL RESEARCH PRESENTED AT THE INTERNATIONAL CONFERENCE ON MICROELECTRONICS, ELECTROMAGNETICS AND TELECOMMUNICATION (ICMEET 2019), ORGANIZED BY THE DEPARTMENT OF ECE, RAGHU INSTITUTE OF TECHNOLOGY, ANDHRA PRADESH, INDIA. WRITTEN BY SCIENTISTS, RESEARCH SCHOLARS AND PRACTITIONERS FROM LEADING UNIVERSITIES, ENGINEERING COLLEGES AND R&D INSTITUTES AROUND THE GLOBE, THE PAPERS SHARE THE LATEST BREAKTHROUGHS IN AND PROMISING SOLUTIONS TO THE MOST IMPORTANT ISSUES FACING TODAY'S SOCIETY.

INTERNATIONAL CONFERENCE ON INTELLIGENT COMPUTING AND SMART COMMUNICATION 2019 - GEETAM SINGH TOMAR 2020-01-07

THIS BOOK GATHERS HIGH-QUALITY RESEARCH PAPERS PRESENTED AT THE FIRST INTERNATIONAL CONFERENCE, ICSC 2019, ORGANISED BY THDC INSTITUTE OF HYDROPOWER ENGINEERING AND TECHNOLOGY, TEHRI, INDIA, FROM 20 TO 21 APRIL 2019. THE BOOK IS DIVIDED INTO TWO MAJOR SECTIONS - INTELLIGENT COMPUTING AND SMART COMMUNICATION. SOME OF THE AREAS COVERED ARE PARALLEL AND DISTRIBUTED SYSTEMS, WEB SERVICES, DATABASES AND DATA MINING APPLICATIONS, FEATURE SELECTION AND FEATURE EXTRACTION, HIGH-PERFORMANCE DATA MINING ALGORITHMS, KNOWLEDGE

DISCOVERY, COMMUNICATION PROTOCOLS AND ARCHITECTURES, HIGH-SPEED COMMUNICATION, HIGH-VOLTAGE INSULATION TECHNOLOGIES, FAULT DETECTION AND PROTECTION, POWER SYSTEM ANALYSIS, EMBEDDED SYSTEMS, ARCHITECTURES, ELECTRONICS IN RENEWABLE ENERGY, CAD FOR VLSI, GREEN ELECTRONICS, SIGNAL AND IMAGE PROCESSING, PATTERN RECOGNITION AND ANALYSIS, MULTI-RESOLUTION ANALYSIS AND WAVELETS, 3D AND STEREO IMAGING, AND NEURAL NETWORKS.

MICROWAVE ENGINEERING - G. S. N. RAJU 2008-01-01

THOUGH GOOD BOOKS ARE AVAILABLE BUT ON SELF-CONTAINED CONCISE & COMPREHENSIVE TEXTBOOK COVERING THE SYLLABUS OF INDIGENOUS UNIVERSITIES IS NOT AVAILABLE. THE PRESENT MICROWAVE ENGINEERING IS AN ATTEMPT IN THAT DIRECTION. STARTING WITH THE FUNDAMENTALS, THE BOOK DISCUSSES: MICROWAVES AND THEIR APPLICATIONS; MICROWAVE TUBES; MICROWAVE SEMICONDUCTOR DEVICES; SCATTERING MATRIX PARAMETERS; MICROWAVE PASSIVE COMPONENTS; MICROWAVE TRANSMISSION LINES; MICROWAVE INTEGRATED; CIRCUITS; MICROWAVE ANTENNAS; AND MICROWAVE MEASUREMENTS

DATA MINING FOR BUSINESS APPLICATIONS - CARLOS A. MOTA SOARES 2010

DATA MINING IS ALREADY INCORPORATED INTO THE BUSINESS PROCESSES IN SECTORS SUCH AS HEALTH, RETAIL, AUTOMOTIVE, FINANCE, TELECOM AND INSURANCE AS WELL AS IN GOVERNMENT. THIS BOOK CONTAINS EXTENDED VERSIONS OF A SELECTION OF PAPERS PRESENTED AT A SERIES OF WORKSHOPS HELD BETWEEN 2005 AND 2008 ON THE SUBJECT OF DATA MINING FOR BUSINESS APPLICATIONS.

IRRIGATION AND WATER RESOURCES ENGINEERING - G. L. ASAWA 2006

THE BOOK IRRIGATION AND WATER RESOURCES ENGINEERING DEALS WITH THE FUNDAMENTAL AND GENERAL ASPECTS OF IRRIGATION AND WATER RESOURCES ENGINEERING AND INCLUDES RECENT DEVELOPMENTS IN HYDRAULIC ENGINEERING RELATED TO IRRIGATION AND WATER RESOURCES ENGINEERING. SIGNIFICANT INCLUSIONS IN THE BOOK ARE A CHAPTER ON MANAGEMENT (INCLUDING OPERATION, MAINTENANCE, AND EVALUATION) OF CANAL IRRIGATION IN INDIA, DETAILED ENVIRONMENTAL ASPECTS FOR WATER RESOURCE PROJECTS, A NOTE ON INTERLINKING OF RIVERS IN INDIA, AND DESIGN PROBLEMS OF HYDRAULIC STRUCTURES SUCH AS GUIDE BUNDS, SETTLING BASINS ETC. THE FIRST CHAPTER OF THE BOOK INTRODUCES IRRIGATION AND DEALS WITH THE NEED, DEVELOPMENT AND ENVIRONMENTAL ASPECTS OF IRRIGATION IN INDIA. THE SECOND CHAPTER ON HYDROLOGY DEALS WITH DIFFERENT ASPECTS OF SURFACE WATER RESOURCE. SOIL-WATER RELATIONSHIPS HAVE BEEN DEALT WITH IN CHAPTER 3. ASPECTS RELATED TO GROUND WATER RESOURCE HAVE BEEN DISCUSSED IN CHAPTER 4. CANAL IRRIGATION AND ITS MANAGEMENT ASPECTS FORM THE SUBJECT MATTER OF CHAPTERS 5 AND 6. BEHAVIOUR OF ALLUVIAL CHANNELS AND DESIGN OF STABLE CHANNELS HAVE BEEN INCLUDED IN CHAPTERS 7 AND 8, RESPECTIVELY. CONCEPTS OF SURFACE AND SUBSURFACE FLOWS, AS APPLICABLE TO HYDRAULIC STRUCTURES, HAVE BEEN INTRODUCED IN CHAPTER 9. DIFFERENT TYPES OF CANAL STRUCTURES HAVE BEEN DISCUSSED IN CHAPTERS 10, 11,

AND 13. CHAPTER 12 HAS BEEN DEVOTED TO RIVERS AND RIVER TRAINING METHODS. AFTER INTRODUCING PLANNING ASPECTS OF WATER RESOURCE PROJECTS IN CHAPTER 14, EMBANKMENT DAMS, GRAVITY DAMS AND SPILLWAYS HAVE BEEN DEALT WITH, RESPECTIVELY, IN CHAPTERS 15, 16 AND 17. THE STUDENTS WOULD FIND SOLVED EXAMPLES (INCLUDING DESIGN PROBLEMS) IN THE TEXT, AND UNSOLVED EXERCISES AND THE LIST OF REFERENCES GIVEN AT THE END OF EACH CHAPTER USEFUL.

**ANTENNAS AND WAVE PROPAGATION** - G. S. N. RAJU 2006

ANTENNAS AND WAVE PROPAGATION IS WRITTEN FOR THE FIRST COURSE ON THE SAME. THE BOOK BEGINS WITH AN INTRODUCTION THAT DISCUSSES THE FUNDAMENTAL CONCEPTS, NOTATIONS, REPRESENTATION AND PRINCIPLES THAT GOVERN THE FIELD OF ANTENNAS. A SEPARATE CHAPTER ON MATHEMATICAL PRELIMINARIES IS DISCUSSED FOLLOWED BY CHAPTERS ON EVERY ASPECT OF ANTENNAS FROM MAXWELL'S EQUATIONS TO ANTENNA ARRAY ANALYSIS, ANTENNA ARRAY SYNTHESIS, ANTENNA MEASUREMENTS AND WAVE PROPAGATION.

**THE METAVERSE: AND HOW IT WILL REVOLUTIONIZE EVERYTHING** - MATTHEW BALL 2022-07-19

WALL STREET JOURNAL BESTSELLER PUBLISHERS WEEKLY BESTSELLER AMAZON: EDITORS' CHOICE IN NONFICTION TIM SWEENEY (CEO OF FORTNITE-MAKER EPIC GAMES): "MATTHEW BALL'S ESSAYS HAVE DEFINED, ANALYZED, AND INSPIRED THE METAVERSE FOR YEARS. HIS BOOK IS AN APPROACHABLE AND ESSENTIAL GUIDE TO THE STRATEGIC, TECHNICAL, AND PHILOSOPHICAL FOUNDATIONS OF THIS NEW MEDIUM." DEREK THOMPSON (ATLANTIC STAFF WRITER AND NATIONAL BEST-SELLING AUTHOR OF HIT MAKERS): "THIS BOOK FEELS LIKE A RARE ACHIEVEMENT: A DEFINITIVE STATEMENT ABOUT AN EMERGING PHENOMENON THAT COULD SHAPE THE DIGITAL WORLD, THE GLOBAL ECONOMY, AND THE VERY EXPERIENCE OF HUMAN CONSCIOUSNESS." FROM THE LEADING THEORIST OF THE METAVERSE COMES THE DEFINITIVE ACCOUNT OF THE NEXT INTERNET: WHAT THE METAVERSE IS, WHAT IT WILL TAKE TO BUILD IT, AND WHAT IT MEANS FOR ALL OF US. THE TERM "METAVERSE" IS SUDDENLY EVERYWHERE, FROM THE FRONT PAGES OF NATIONAL NEWSPAPERS AND THE LATEST FASHION TRENDS TO THE PLANS OF THE MOST POWERFUL COMPANIES IN HISTORY. IT IS ALREADY SHAPING THE POLICY PLATFORMS OF THE US GOVERNMENT, THE EUROPEAN UNION, AND THE CHINESE COMMUNIST PARTY. BUT WHAT, EXACTLY, IS THE METAVERSE? AS PIONEERING THEORIST AND VENTURE CAPITALIST MATTHEW BALL EXPLAINS, IT IS A PERSISTENT AND INTERCONNECTED NETWORK OF 3D VIRTUAL WORLDS THAT WILL EVENTUALLY SERVE AS THE GATEWAY TO MOST ONLINE EXPERIENCES, AND ALSO UNDERPIN MUCH OF THE PHYSICAL WORLD. FOR DECADES, THESE IDEAS HAVE BEEN LIMITED TO SCIENCE FICTION AND VIDEO GAMES, BUT THEY ARE NOW POISED TO REVOLUTIONIZE EVERY INDUSTRY AND FUNCTION, FROM FINANCE AND HEALTHCARE TO EDUCATION, CONSUMER PRODUCTS, CITY PLANNING, DATING, AND WELL BEYOND. TAKING US ON AN EXPANSIVE TOUR OF THE "NEXT INTERNET," BALL DEMONSTRATES THAT MANY PROTO-METAVERSES ARE ALREADY HERE, SUCH AS FORTNITE, MINECRAFT, AND ROBLOX. YET THESE OFFER ONLY A GLIMPSE OF WHAT IS TO COME. BALL PRESENTS A COMPREHENSIVE

DEFINITION OF THE METAVERSE BEFORE EXPLAINING THE TECHNOLOGIES THAT WILL POWER IT—AND THE BREAKTHROUGHS THAT WILL BE NECESSARY TO FULLY REALIZE IT. HE ADDRESSES THE GOVERNANCE CHALLENGES THE METAVERSE ENTAILS; INVESTIGATES THE ROLE OF WEB3, BLOCKCHAINS, AND NFTS; AND PREDICTS METAVERSE WINNERS AND LOSERS. MOST IMPORTANTLY, HE EXAMINES MANY OF THE METAVERSE'S ALMOST UNLIMITED APPLICATIONS. THE INTERNET WILL NO LONGER BE AT ARM'S LENGTH; INSTEAD, IT WILL SURROUND US, WITH MUCH OF OUR LIVES, LABOR, AND LEISURE TAKING PLACE INSIDE THE METAVERSE. BRINGING CLARITY AND AUTHORITY TO A FREQUENTLY MISUNDERSTOOD CONCEPT, BALL FORESEES TRILLIONS OF DOLLARS IN NEW VALUE—AND THE RADICAL RESHAPING OF SOCIETY.

**COHERENT ANTARCTIC RADAR DEPTH SOUNDER (CARDS) DESIGN, DEVELOPMENT AND RESULTS** - RAJU GARUDACHAR 1989

**PROCEEDINGS OF INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTER ENGINEERING AND COMMUNICATION SYSTEMS** - C. KIRAN MAI 2021-01-22

THIS BOOK COMPRISES THE BEST DELIBERATIONS WITH THE THEME "SMART INNOVATIONS IN MEZZANINE TECHNOLOGIES, DATA ANALYTICS, NETWORKS AND COMMUNICATION SYSTEMS" IN THE "INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTER ENGINEERING AND COMMUNICATION SYSTEMS (ICACECS 2020)", ORGANIZED BY THE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY. THE BOOK PROVIDES INSIGHTS ON THE RECENT TRENDS AND DEVELOPMENTS IN THE FIELD OF COMPUTER SCIENCE WITH A SPECIAL FOCUS ON THE MEZZANINE TECHNOLOGIES AND CREATES AN ARENA FOR COLLABORATIVE INNOVATION. THE BOOK FOCUSES ON ADVANCED TOPICS IN ARTIFICIAL INTELLIGENCE, MACHINE LEARNING, DATA MINING AND BIG DATA COMPUTING, CLOUD COMPUTING, INTERNET ON THINGS, DISTRIBUTED COMPUTING AND SMART SYSTEMS.

**DATA MINING AND MACHINE LEARNING APPLICATIONS** - ROHIT RAJA 2022-01-26

DATA MINING AND MACHINE LEARNING APPLICATIONS THE BOOK ELABORATES IN DETAIL ON THE CURRENT NEEDS OF DATA MINING AND MACHINE LEARNING AND PROMOTES MUTUAL UNDERSTANDING AMONG RESEARCH IN DIFFERENT DISCIPLINES, THUS FACILITATING RESEARCH DEVELOPMENT AND COLLABORATION. DATA, THE LATEST CURRENCY OF TODAY'S WORLD, IS THE NEW GOLD. IN THIS NEW FORM OF GOLD, THE MOST BEAUTIFUL JEWELS ARE DATA ANALYTICS AND MACHINE LEARNING. DATA MINING AND MACHINE LEARNING ARE CONSIDERED INTERDISCIPLINARY FIELDS. DATA MINING IS A SUBSET OF DATA ANALYTICS AND MACHINE LEARNING INVOLVES THE USE OF ALGORITHMS THAT AUTOMATICALLY IMPROVE THROUGH EXPERIENCE BASED ON DATA. MASSIVE DATASETS CAN BE CLASSIFIED AND CLUSTERED TO OBTAIN ACCURATE RESULTS. THE MOST COMMON TECHNOLOGIES USED INCLUDE CLASSIFICATION AND CLUSTERING METHODS. ACCURACY AND ERROR RATES ARE CALCULATED FOR REGRESSION AND CLASSIFICATION AND CLUSTERING TO FIND ACTUAL RESULTS THROUGH ALGORITHMS LIKE SUPPORT VECTOR MACHINES AND NEURAL NETWORKS

WITH FORWARD AND BACKWARD PROPAGATION. APPLICATIONS INCLUDE FRAUD DETECTION, IMAGE PROCESSING, MEDICAL DIAGNOSIS, WEATHER PREDICTION, E-COMMERCE AND SO FORTH. THE BOOK FEATURES: A REVIEW OF THE STATE-OF-THE-ART IN DATA MINING AND MACHINE LEARNING, A REVIEW AND DESCRIPTION OF THE LEARNING METHODS IN HUMAN-COMPUTER INTERACTION, IMPLEMENTATION STRATEGIES AND FUTURE RESEARCH DIRECTIONS USED TO MEET THE DESIGN AND APPLICATION REQUIREMENTS OF SEVERAL MODERN AND REAL-TIME APPLICATIONS FOR A LONG TIME, THE SCOPE AND IMPLEMENTATION OF A MAJORITY OF DATA MINING AND MACHINE LEARNING STRATEGIES. A DISCUSSION OF REAL-TIME PROBLEMS. AUDIENCE INDUSTRY AND ACADEMIC RESEARCHERS, SCIENTISTS, AND ENGINEERS IN INFORMATION TECHNOLOGY, DATA SCIENCE AND MACHINE AND DEEP LEARNING, AS WELL AS ARTIFICIAL INTELLIGENCE MORE BROADLY.

*ANTENNA PATTERN SYNTHESIS* - DONALD R. RHODES 1972

AN INVESTIGATION WAS MADE TOWARD EVOLVING A METHOD OF TWO-DIMENSIONAL ANTENNA PATTERN SYNTHESIS SUCH THAT ANTENNA SPECIFICATIONS INVOLVING DIMENSIONALITY, SHAPE, AND THE CONSTITUENT RELATIONS CAN BE RELATED TO THE FREQUENCY CHARACTERISTICS. (AUTHOR).

*ANTENNAS AND WAVE PROPAGATION* - PEDRO PINHO 2018-09-26

ANTENNAS AND RADIO PROPAGATION ARE CONTINUOUSLY AND RAPIDLY EVOLVING AND NEW CHALLENGES ARISE EVERY DAY. AS A RESULT OF THESE RAPID CHANGES THE NEED FOR UP-TO-DATE TEXTS THAT ADDRESS THIS GROWING FIELD FROM AN INTERDISCIPLINARY PERSPECTIVE PERSISTS. THIS BOOK, ORGANIZED INTO NINE CHAPTERS, PRESENTS NEW ANTENNA DESIGNS AND MATERIALS THAT WILL BE USED IN THE FUTURE, DUE TO THE TREND FOR HIGHER FREQUENCIES, AS WELL AS A BIRD'S EYE VIEW OF SOME ASPECTS RELATED TO RADIO PROPAGATION CHANNEL MODELING. THE BOOK COVERS THE THEORY BUT ALSO THE PRACTICAL ASPECTS OF TECHNOLOGY IMPLEMENTATION IN A WAY THAT IS SUITABLE FOR UNDERGRADUATE AND GRADUATE-LEVEL STUDENTS, AS WELL AS RESEARCHERS AND PROFESSIONAL ENGINEERS.

*NEXGEN TECHNOLOGIES FOR MINING AND FUEL INDUSTRIES (VOLUME I AND II)* - PRADEEP K. SINGH 2017-03-06

THE PAPERS IN THESE TWO VOLUMES WERE PRESENTED AT THE INTERNATIONAL CONFERENCE ON "NEXGEN TECHNOLOGIES FOR MINING AND FUEL INDUSTRIES" [NxGnMiFu-2017] IN NEW DELHI FROM FEBRUARY 15-17, 2017, ORGANIZED BY CSIR-CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH, DHANBAD, INDIA. THE PROCEEDINGS INCLUDE THE CONTRIBUTIONS FROM AUTHORS ACROSS THE GLOBE ON THE LATEST RESEARCH ON MINING AND FUEL TECHNOLOGIES. THE MAJOR ISSUES FOCUSED ON ARE: INNOVATIVE MINING TECHNOLOGY, ROCK MECHANICS AND STABILITY ANALYSIS, ADVANCES IN EXPLOSIVES AND BLASTING, MINE SAFETY AND RISK MANAGEMENT, COMPUTER SIMULATION AND MINE AUTOMATION, NATURAL RESOURCE MANAGEMENT FOR SUSTAINABLE DEVELOPMENT, ENVIRONMENTAL IMPACTS AND REMEDIATION, PASTE FILL TECHNOLOGY AND WASTE UTILISATION, FLY ASH MANAGEMENT, CLEAN COAL INITIATIVES, MINERAL PROCESSING AND COAL BENEFICIATION, QUALITY COAL FOR POWER GENERATION AND CONVENTIONAL AND NON-CONVENTIONAL FUELS AND GASES. THIS

COLLECTION OF CONTEMPORARY ARTICLES CONTAINS UNIQUE KNOWLEDGE, CASE STUDIES, IDEAS AND INSIGHTS, A MUST-HAVE FOR RESEARCHERS AND ENGINEERS WORKING IN THE AREAS OF MINING TECHNOLOGIES AND FUEL SCIENCES.

*SMART COMPUTING AND SELF-ADAPTIVE SYSTEMS* - SIMAR PREET SINGH 2021-12-20

THE BOOK INTENDS TO COVER VARIOUS PROBLEMATIC ASPECTS OF EMERGING SMART COMPUTING AND SELF-ADAPTING TECHNOLOGIES COMPRISING OF MACHINE LEARNING, ARTIFICIAL INTELLIGENCE, DEEP LEARNING, ROBOTICS, CLOUD COMPUTING, FOG COMPUTING, DATA MINING ALGORITHMS, INCLUDING EMERGING INTELLIGENT AND SMART APPLICATIONS RELATED TO THESE RESEARCH AREAS. FURTHER COVERAGE INCLUDES IMPLEMENTATION OF SELF-ADAPTATION ARCHITECTURE FOR SMART DEVICES, SELF-ADAPTIVE MODELS FOR SMART CITIES AND SELF-DRIVEN CARS, DECENTRALIZED SELF-ADAPTIVE COMPUTING AT THE EDGE NETWORKS, ENERGY-AWARE AI-BASED SYSTEMS, M2M NETWORKS, SENSORS, DATA ANALYTICS, ALGORITHMS AND TOOLS FOR ENGINEERING SELF-ADAPTIVE SYSTEMS, AND SO FORTH. ACTS AS GUIDE TO SELF-HEALING AND SELF-ADAPTATION BASED FULLY AUTOMATIC FUTURE TECHNOLOGIES DISCUSSES ABOUT SMART COMPUTATIONAL ABILITIES AND SELF-ADAPTIVE SYSTEMS ILLUSTRATES TOOLS AND TECHNIQUES FOR DATA MANAGEMENT AND EXPLAINS THE NEED TO APPLY, AND DATA INTEGRATION FOR IMPROVING EFFICIENCY OF BIG DATA EXCLUSIVE CHAPTER ON THE FUTURE OF SELF-STABILIZING AND SELF-ADAPTIVE SYSTEMS OF SYSTEMS COVERS FIELDS SUCH AS AUTOMATION, ROBOTICS, MEDICAL SCIENCES, BIOMEDICAL AND AGRICULTURAL SCIENCES, HEALTHCARE AND SO FORTH THIS BOOK IS AIMED RESEARCHERS AND GRADUATE STUDENTS IN MACHINE LEARNING, INFORMATION TECHNOLOGY, AND ARTIFICIAL INTELLIGENCE.

*ADVANCES IN DECISION SCIENCES, IMAGE PROCESSING, SECURITY AND COMPUTER VISION* - SURESH CHANDRA SATAPATHY 2019-07-25

THIS BOOK CONSTITUTES THE PROCEEDINGS OF THE FIRST INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING (ICETE), HELD AT UNIVERSITY COLLEGE OF ENGINEERING AND ORGANISED BY THE ALUMNI ASSOCIATION, UNIVERSITY COLLEGE OF ENGINEERING, OSMANIA UNIVERSITY, IN HYDERABAD, INDIA ON 22-23 MARCH 2019. THE PROCEEDINGS OF THE ICETE ARE PUBLISHED IN THREE VOLUMES, COVERING SEVEN AREAS: BIOMEDICAL, CIVIL, COMPUTER SCIENCE, ELECTRICAL & ELECTRONICS, ELECTRONICS & COMMUNICATION, MECHANICAL, AND MINING ENGINEERING. THE 215 PEER-REVIEWED PAPERS FROM AROUND THE GLOBE PRESENT THE LATEST STATE-OF-THE-ART RESEARCH, AND ARE USEFUL TO POSTGRADUATE STUDENTS, RESEARCHERS, ACADEMICS AND INDUSTRY ENGINEERS WORKING IN THE RESPECTIVE FIELDS. VOLUME 2 PRESENTS PAPERS ON THE THEME "ADVANCES IN DECISION SCIENCES, IMAGE PROCESSING, SECURITY AND COMPUTER VISION - INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING (ICETE)". IT INCLUDES STATE-OF-THE-ART TECHNICAL CONTRIBUTIONS IN THE AREAS OF ELECTRONICS AND COMMUNICATION ENGINEERING AND ELECTRICAL AND ELECTRONICS ENGINEERING, DISCUSSING THE LATEST SUSTAINABLE DEVELOPMENTS IN FIELDS SUCH AS SIGNAL PROCESSING AND COMMUNICATIONS; GNSS AND VLSI; MICROWAVES AND ANTENNAS; SIGNAL, SPEECH AND IMAGE PROCESSING;

POWER SYSTEMS; AND POWER ELECTRONICS.

**WAVE PROPAGATION AND ANTENNA ENGINEERING** - KUMAR, SANJAY  
2015-12-14

THE BOOK IS PRIMARILY DESIGNED TO CATER TO THE NEEDS OF UNDERGRADUATE AND POSTGRADUATE STUDENTS OF ELECTRONICS AND COMMUNICATION ENGINEERING AND ALLIED BRANCHES. IT ALSO CATERS FOR FUNDAMENTAL REQUIREMENTS OF PROFESSIONALS WORKING ON DESIGN AND DEVELOPMENT OF ANTENNA AND WAVE PROPAGATION RELATED EQUIPMENT EITHER IN RESEARCH LABORATORIES OR INDUSTRIES OR ACADEMIC INSTITUTIONS ELSEWHERE.

THE BOOK HAS BEEN WRITTEN WITH INTENT TO GRASP THE BASIC UNDERSTANDING OF THEORETICAL AS WELL AS PRACTICAL ASPECTS OF ELECTROMAGNETIC WAVE PROPAGATION AND ANTENNA ENGINEERING. THE TEXT HAS BEEN APTLY SCRIPTED CONSIDERING THE REQUIREMENTS OF AVERAGE STUDENTS WHO CAN EASILY GRASP AND COMPREHEND THE BASICS OF WAVE PROPAGATION AND RADIATION MECHANISM OF VARIETIES OF ANTENNAS COUPLED WITH THEIR CRITICAL FUNCTIONALITIES, UTILITIES, ADVANTAGES/DISADVANTAGES WITHOUT ANY EXTERNAL ASSISTANCE OF TEACHERS OR OTHER REFERENCE BOOKS. THE BOOK BROACHES VERY WELL ON PRACTICAL METHODS OF PARAMETRIC MEASUREMENTS OF ANTENNA WITH RIGHT MEASURING TEST EQUIPMENT AND ASSOCIATED TOOLS. THE LAST CHAPTER OF THE BOOK IS DEDICATED TO ADVANCE TECHNOLOGY ADOPTED IN DESIGN AND DEVELOPMENT OF MODERN ANTENNA. KEY FEATURES

- A FAIRLY LARGE NUMBER OF WELL LABELLED DIAGRAMS TO PROVIDE PRACTICAL UNDERSTANDING OF THE CONCEPTS.
- THE PLACEMENT OF NUMERICALS AT APPROPRIATE PLACES DEVELOPS CONFIDENCE AMONG READERS AND ENTHUSES THEM FURTHER TO READ IN DEPTH TO CRACK ANY REGULAR OR COMPETITIVE EXAMINATIONS.
- CHAPTER SUMMARY HIGHLIGHTS IMPORTANT POINTS FOR QUICK RECAP AND REVISION BEFORE EXAMINATION.
- WELL-CRAFTED MULTIPLE CHOICE QUESTIONS WITH ANSWERS AT THE END OF EACH CHAPTER TO STIMULATE THOUGHT PROCESS AND PREPARE BETTER FOR VIVA-VOCE AND COMPETITIVE EXAMINATIONS.
- APPROPRIATE NUMBER OF UNSOLVED NUMERICAL PROBLEMS WITH ANSWERS TO IMPROVE PROBLEM SOLVING SKILL OF STUDENTS.

**ELECTROMAGNETIC FIELD THEORY AND TRANSMISSION LINES** - RAJU, G. S. N.

ELECTROMAGNETIC FIELD THEORY AND TRANSMISSION LINES IS IDEAL FOR A SINGLE SEMESTER, FIRST COURSE ON ELECTROMAGNETIC FIELD THEORY (EMFT) AT THE UNDERGRADUATE LEVEL. THIS BOOK USES DIAGRAMMATIC REPRESENTATIONS AND REAL LIFE EXAMPLES TO EXPLAIN THE FU

**PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE IN OCEAN ENGINEERING (ICOE2018)** - K. MURALI 2018-12-31

THIS BOOK COMPRISES SELECTED PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE IN OCEAN ENGINEERING (ICOE2018), FOCUSING ON EMERGING OPPORTUNITIES AND CHALLENGES IN THE FIELD OF OCEAN ENGINEERING AND OFFSHORE STRUCTURES. IT INCLUDES STATE-OF-THE-ART CONTENT FROM LEADING INTERNATIONAL EXPERTS, MAKING IT A VALUABLE RESOURCE FOR RESEARCHERS AND PRACTICING ENGINEERS ALIKE.

**EMERGING RESEARCH IN ELECTRONICS, COMPUTER SCIENCE AND TECHNOLOGY** - V. SRIDHAR

2019-04-24

THIS BOOK PRESENTS THE PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON EMERGING RESEARCH IN ELECTRONICS, COMPUTER SCIENCE AND TECHNOLOGY (ICERECT) ORGANIZED BY PES COLLEGE OF ENGINEERING IN MANDYA. FEATURING CUTTING-EDGE, PEER-REVIEWED ARTICLES FROM THE FIELD OF ELECTRONICS, COMPUTER SCIENCE AND TECHNOLOGY, IT IS A VALUABLE RESOURCE FOR MEMBERS OF THE SCIENTIFIC RESEARCH COMMUNITY.

**MICROWAVE ENGINEERING** - ANNA PURNA DAS 2008

PART OF THE MCGRAW-HILL CORE CONCEPTS SERIES, MICROWAVE ENGINEERING THOROUGHLY COVERS THE BASIC PRINCIPLES, ANALYSIS, DESIGN AND MEASUREMENT TECHNIQUES NECESSARY FOR AN INTRODUCTORY UNDERGRADUATE OR GRADUATE COURSE IN MICROWAVE ENGINEERING. THE TEXT INCLUDES COMPREHENSIVE COVERAGE, WITH CHAPTERS ON THE APPLICATIONS OF MICROWAVE ENGINEERING, INCLUDING ANTENNAE, RADAR, COMMUNICATION SYSTEMS, AND INDUSTRIAL APPLICATIONS OF MICROWAVES, AS WELL AS MICROWAVE MEASUREMENTS AND MICROWAVE RADIATION HAZARDS AND SAFETY MEASURES. PEDAGOGY SUCH AS NUMEROUS ILLUSTRATIONS, SOLVED EXAMPLES, AND PRACTICE EXERCISES REINFORCE PRACTICAL DESIGN CONCEPTS. ABOUT THE CORE CONCEPTS IN ELECTRICAL ENGINEERING SERIES: AS ADVANCES IN NETWORKING AND COMMUNICATIONS BRING THE GLOBAL ACADEMIC COMMUNITY EVEN CLOSER TOGETHER, IT IS ESSENTIAL THAT TEXTBOOKS RECOGNIZE AND RESPOND TO THIS SHIFT. IT IS IN THIS SPIRIT THAT WE WILL PUBLISH TEXTBOOKS IN THE MCGRAW-HILL CORE CONCEPTS IN ELECTRICAL ENGINEERING SERIES. THE SERIES WILL OFFER TEXTBOOKS FOR THE GLOBAL ELECTRICAL ENGINEERING CURRICULUM THAT ARE REASONABLY PRICED, INNOVATIVE, DYNAMIC, AND WILL COVER FUNDAMENTAL SUBJECT AREAS STUDIED BY ELECTRICAL AND COMPUTER ENGINEERING STUDENTS. WRITTEN WITH A GLOBAL PERSPECTIVE AND PRESENTING THE LATEST IN TECHNOLOGICAL ADVANCES, THESE BOOKS WILL GIVE STUDENTS OF ALL BACKGROUNDS A SOLID FOUNDATION IN KEY ENGINEERING SUBJECTS.

**MICROWAVE AND RADAR ENGINEERING WITH LAB MANUAL** - VINITH CHAUHAN 2015

**ELECTROMAGNETIC FIELD THEORY AND TRANSMISSION LINES** - G. S. N. RAJU 2006

ELECTROMAGNETIC FIELD THEORY AND TRANSMISSION LINES IS AN IDEAL TEXTBOOK FOR A SINGLE SEMESTER, FIRST COURSE ON ELECTROMAGNETIC FIELD THEORY (EMFT) AT THE UNDERGRADUATE LEVEL. THIS BOOK USES PLAIN AND SIMPLE ENGLISH, DIAGRAMMATIC REPRESENTATIONS AND REAL LIFE EXAMPLES TO EXPLAIN THE FUNDAMENTAL CONCEPTS, NOTATIONS, REPRESENTATION AND PRINCIPLES THAT GOVERN THE FIELD OF EMFT. THE CHAPTERS COVER EVERY ASPECT OF EMFT FROM ELECTROSTATICS TO ADVANCED TOPICS DEALING WITH ELECTROMAGNETIC INTERFERENCE (EMI)/ELECTROMAGNETIC COMPATIBILITY (EMC), EMC STANDARDS AND DESIGN METHODS FOR EMC. CAREFUL AND DETA.

**MICROWAVE ENGINEERING** - DAVID M. POZAR 2011-11-22

POZAR'S NEW EDITION OF MICROWAVE ENGINEERING INCLUDES MORE MATERIAL ON ACTIVE CIRCUITS, NOISE, NONLINEAR EFFECTS, AND WIRELESS SYSTEMS. CHAPTERS ON NOISE AND

NONLINEAR DISTORTION, AND ACTIVE DEVICES HAVE BEEN ADDED ALONG WITH THE COVERAGE OF NOISE AND MORE MATERIAL ON INTERMODULATION DISTORTION AND RELATED NONLINEAR EFFECTS. ON ACTIVE DEVICES, THERE'S MORE UPDATED MATERIAL ON BIPOLAR JUNCTION AND FIELD EFFECT TRANSISTORS. NEW AND UPDATED MATERIAL ON WIRELESS COMMUNICATIONS SYSTEMS, INCLUDING LINK BUDGET, LINK MARGIN, DIGITAL MODULATION METHODS, AND BIT ERROR RATES IS ALSO PART OF THE NEW EDITION. OTHER NEW MATERIAL INCLUDES A SECTION ON TRANSIENTS ON TRANSMISSION LINES, THE THEORY OF POWER WAVES, A DISCUSSION OF HIGHER ORDER MODES AND FREQUENCY EFFECTS FOR MICROSTRIP LINE, AND A DISCUSSION OF HOW TO DETERMINE UNLOADED.

ELECTRONIC DEVICES AND CIRCUITS - G. S. N. RAJU 2006-01-01

DETAILED THEORY, OPERATION AND APPLICATION OF DEVICES AND CIRCUITS 1000

OBJECTIVE TYPE QUESTION AND ANSWERS 150 SOLVED PROBLEMS 100 EXERCISE PROBLEMS

WITH SOLUTION MANUAL 27 EXPERIMENTS POWER CONSUMPTION DETAILS ELECTRONIC DEVICES AND CIRCUITS CONTAINS THE FUNDAMENTALS OF ELECTRONIC DEVICES AND THEIR APPLICATIONS. THE BOOK IS CENTRED AROUND THE BASIC CHARACTERISTICS, ANALYSIS, DESIGN AND APPLICATION ASPECTS OF CONDUCTORS, INSULATORS, SEMI-CONDUCTORS, RESISTORS, INDUCTORS, CAPACITORS, BASIC NETWORK THEOREMS, TEST AND MEASURING METERS, FABRICATION TECHNIQUES, DIODES, TRANSISTORS, AMPLIFIERS AND OSCILLATORS. THE FUNDAMENTALS CONCEPTS OF THE SUBJECT ARE DESCRIBED POINTWISE FOR EASY READABILITY AND GRASP. SEVERAL SOLVED PROBLEMS, OBJECTIVE-TYPE QUESTIONS AND MULTIPLE-CHOICE QUESTION WITH ANSWERS, EXERCISE QUESTIONS WITH SOLUTION MANUAL AND A LARGE NUMBER WORKED OUT EXAMPLES, BESIDES 27 EXPERIMENTS CONDUCTED FOR ALL THE ENGINEERING AND SCIENT STUDENTS ARE THE HIGHLIGHT OF THE BOOK. THE ENTIRE CONTENT IN THE BOOK IS PROVIDED IN A LOGICAL, ORDERLY AND A SELF-UNDERSTANDABLE MANNER.