

Radiation And Microwave Techniques

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HANDBOOK OF MICROWAVE TECHNIQUES AND EQUIPMENT -
HARRY ELLIOT THOMAS 1972

MICROWAVES - A. J. BADEN FULLER 1979

**EFFECTS OF FREEZING AND THAWING BY MICROWAVE
RADIATION ON STABILITY OF CEFOTAXIME ADMIXTURE IN
PLASTIC BAGS** - ALAM SHER 1982

THE OBJECTIVE OF THIS STUDY IS TO EVALUATE THE
CHEMICAL STABILITY OF RECONSTITUTED CEFOTAXIME SODIUM
FROZEN AND THAWED BY OTHER CONVENTIONAL OR
MICROWAVE TECHNIQUES.

MICROWAVE-ASSISTED POLYMERIZATION - ANURADHA
MISHRA 2015-10-28

POLYMER SCIENCE FACES THE CHALLENGE OF MEETING GROWING
MARKET DEMAND FOR POLYMERS WHILST ACHIEVING

SUSTAINABILITY THROUGH ENVIRONMENTALLY FRIENDLY PROCESSES. MICROWAVE HEATING HAS EMERGED AS A GREENER TECHNIQUE THAT ACCELERATES A VARIETY OF CHEMICAL REACTIONS, INCLUDING POLYMERIZATION. MICROWAVE-ASSISTED REACTIONS CAN BE CLEANER AND MORE RAPID AND ECONOMIC ANALYSES SUGGEST THAT THE COST OF CURING POLYMERS MAY BE REDUCED BY SWITCHING OVER TO THE USE OF MICROWAVES. THIS BOOK PROVIDES COMPREHENSIVE COVERAGE OF MICROWAVE-ASSISTED POLYMERIZATION. THE FIRST CHAPTER INTRODUCES READERS TO THE THEORY BEHIND THE ACCELERATING EFFECTS OF MICROWAVES ON CHEMICAL REACTIONS AND COVERS THE TYPES OF COMMERCIAL MICROWAVE REACTORS BEING USED FOR SYNTHESIS AND PROCESSING OF POLYMERS THAT ARE AVAILABLE ON THE MARKET. SUBSEQUENT CHAPTERS ARE ORGANISED BY TYPE OF REACTION, INCLUDING RADICAL HOMO AND CO-POLYMERIZATIONS, STEP GROWTH POLYMERIZATION AND PEPTIDE SYNTHESIS. IMPORTANTLY, ANALYSIS OF PROCESSES AND PRODUCT PROPERTIES IN COMPARISON WITH CONVENTIONAL METHODS IS ALSO DETAILED. THIS BOOK WILL BE A VALUABLE RESOURCE FOR GREEN CHEMISTS AND POLYMER SCIENTISTS AND ENGINEERS WHO WANT TO DEVELOP SUSTAINABLE PROCESSES.

MICROWAVE IMAGING TECHNIQUES - BERNARD D. STEINBERG
1991-05-09
HANDBOOK OF MICROWAVE AND OPTICAL COMPONENTS

EDITOR-IN-CHIEF: KAI CHANG THIS IMPORTANT, FOUR-VOLUME WORK COVERS RECENT DEVELOPMENTS IN A FIELD THAT CONTINUES TO EVOLVE AT AN EXTRAORDINARILY RAPID PACE. THE INFORMATION GIVEN IS ALMOST ENTIRELY OF A PRACTICAL NATURE, WITH THEORETICAL DISCUSSIONS AND MATHEMATICAL FORMULATIONS GIVEN ONLY WHERE ESSENTIAL. CONSEQUENTLY, THE HANDBOOK IS THE DEFINITIVE SOURCE GUIDE FOR PROFESSIONALS WORKING IN OPTICAL AND MICROWAVE ENGINEERING. IT COVERS ALL IMPORTANT AREAS OF MICROWAVE, MILLIMETER-WAVE, SUBMILLIMETER-WAVE, INFRARED, AND OPTICAL FREQUENCY SPECTRA—FROM ESSENTIAL PRINCIPLES, METHODS, DESIGN INFORMATION, AND REFERENCES FOR SOLVING ALL TYPES OF PROBLEMS IN HIGH-FREQUENCY SPECTRA. VOLUME 1: MICROWAVE PASSIVE AND ANTENNA COMPONENTS 1989 (0 471-61366-5) 907 pp. VOLUME 2: MICROWAVE SOLID-STATE COMPONENTS 1990 (0 471-84365-2) 635 pp. VOLUME 3: OPTICAL COMPONENTS 1990 (0 471-61367-3) 616 pp. VOLUME 4: FIBER AND ELECTRO-OPTICAL COMPONENTS 1991 (0 471-61365-7) 484 pp. INTERNATIONAL JOURNAL OF IMAGING SYSTEMS AND TECHNOLOGY EDITORS: GLEN WADE, HUA LEE, AND ENDERS A. ROBINSON THIS INTERDISCIPLINARY JOURNAL OFFERS COMPREHENSIVE COVERAGE OF THE THEORY AND APPLICATIONS OF IMAGING TECHNOLOGY. PAPERS ARE DRAWN FROM A WIDE RANGE OF AREAS—HOLOGRAPHY, OPTICAL PROCESSING, ENGINEERING, CHEMISTRY, RADIOLOGY,

GEOLOGY, GEOGRAPHY, ASTRONOMY, COMPUTER AND MATERIALS SCIENCE, AND MATHEMATICS. THE JOURNAL PROVIDES A SINGLE SOURCE FOR CURRENT INFORMATION PERTINENT TO ENGINEERS AND SPECIALISTS WORKING IN IMAGING TECHNOLOGY, AS WELL AS A FORUM FOR THE DEVELOPMENT OF NEW TECHNOLOGY.

MICROWAVE ANTENNA THEORY AND DESIGN - SAMUEL SILVER
1962

THE APPLICATION OF MICROWAVE TECHNIQUES TO STELLARATOR RESEARCH - MARK A. HEALD 1959

INDEX OF PUBLICATIONS ON BIOLOGICAL EFFECTS OF ELECTROMAGNETIC RADIATION (0-100 GHz) - JAMES B. KINN
1981

MICROWAVE THEORY AND TECHNIQUES - HERBERT J. REICH
1953

PRINCIPLES OF MICROWAVE CIRCUITS - CAROL GRAY
MONTGOMERY 1987

INTRODUCTION: ELECTROMAGNETIC WAVES. WAVEGUIDES AS TRANSMISSION LINES. ELEMENTS OF NETWORK THEORY. GENERAL MICROWAVE CIRCUIT THEOREMS. WAVEGUIDE CIRCUIT ELEMENTS. RESONANT CAVITIES AS MICROWAVE CIRCUIT ELEMENTS. RADIAL TRANSMISSION LINES. WAVEGUIDE

JUNCTIONS WITH SEVERAL ARMS. MODE TRANSFORMATIONS. DIELECTRICS IN WAVEGUIDES. THE SYMMETRY OF WAVEGUIDE JUNCTIONS.

SPECTROSCOPY AT RADIO AND MICROWAVE FREQUENCIES -
D. J. INGRAM 2012-12-06

IN VIEW OF THE GROWING INTEREST IN SPECTROSCOPY AT RADIO AND MICRO WAVE FREQUENCIES, AND THE INCREASING NUMBER OF ITS APPLICATIONS TO BOTH PHYSICS AND CHEMISTRY, IT WAS THOUGHT THAT A GENERAL OUTLINE OF THE SUBJECT FOR NON-SPECIALISTS MIGHT BE OF SOME VALUE. RESEARCH IN THIS FIELD IS STILL EXPANDING, BUT IS NOW SUFFICIENTLY DEVELOPED FOR A CRITICAL REVIEW TO BE MADE BOTH OF ITS MAIN APPLICATIONS AND OF THE TECHNIQUES THAT ARE USED IN THIS WAVELENGTH REGION. A BROAD APPROACH HAS BEEN TAKEN, AND THE SIMILARITY AND INTER RELATION OF THE DIFFERENT BRANCHES HAVE BEEN STRESSED, AS WELL AS THEIR GENERAL SETTING IN SPECTROSCOPY AS A WHOLE. IN THIS WAY IT IS HOPED THAT THE BOOK WILL BE OF INTEREST TO MANY RESEARCH WORKERS AND STUDENTS WHO, ALTHOUGH NOT DIRECTLY CONCERNED WITH THE SUBJECT, WOULD LIKE TO OBTAIN A GENERAL PICTURE OF ITS METHODS AND APPLICATIONS. AT THE SAME TIME CONSIDERABLE SPACE HAS BEEN GIVEN TO THE DESIGN OF EXPERIMENTAL APPARATUS AND EQUIPMENT, SO THAT THOSE WISHING TO SET UP SUCH SPECTROSCOPES SHOULD BE ABLE TO FIND MUCH USEFUL AND DETAILED INFORMATION.

HIGH FREQUENCY TECHNIQUES - JOSEPH F. WHITE
2016-08-03

THIS TEXTBOOK PROVIDES A FUNDAMENTAL APPROACH TO RF AND MICROWAVE ENGINEERING. IT IS UNUSUAL FOR THE THOROUGHNESS WITH WHICH THESE AREAS ARE PRESENTED. THE EFFECT IS THAT THE READER COMES AWAY WITH A DEEP INSIGHT NOT ONLY OF THE DESIGN FORMULATION BUT ANSWERS TO HOW AND WHY THOSE FORMULATIONS WORK. THIS IS ESPECIALLY VALUABLE FOR ENGINEERS WHOSE CAREERS INVOLVE RESEARCH AND PRODUCT DEVELOPMENT, WHEREIN THE APPLICABILITY OF THE APPLIED PRINCIPLES MUST BE UNDERSTOOD. THE SCOPE OF THIS BOOK EXTENDS FROM TOPICS FOR A FIRST COURSE IN ELECTRICAL ENGINEERING, IN WHICH IMPEDANCES ARE ANALYZED USING COMPLEX NUMBERS, THROUGH THE INTRODUCTION OF TRANSMISSION LINES THAT ARE ANALYZED USING THE SMITH CHART, AND ON TO GRADUATE LEVEL SUBJECTS, SUCH AS EQUIVALENT CIRCUITS FOR OBSTACLES IN HOLLOW WAVEGUIDES, ANALYZED USING GREEN'S FUNCTIONS. THIS BOOK IS A VIRTUAL ENCYCLOPEDIA OF CIRCUIT DESIGN METHODS. DESPITE THE COMPLEXITY, TOPICS ARE PRESENTED IN A CONVERSATIONAL MANNER FOR EASE OF COMPREHENSION. THE BOOK IS NOT ONLY AN EXCELLENT TEXT AT THE UNDERGRADUATE AND GRADUATE LEVELS, BUT IS AS WELL A DETAILED REFERENCE FOR THE PRACTICING ENGINEER. CONSIDER HOW WELL INFORMED AN ENGINEER WILL BE WHO HAS BECOME FAMILIAR WITH THESE

TOPICS AS TREATED IN HIGH FREQUENCY TECHNIQUES: (IN ORDER OF PRESENTATION) BRIEF HISTORY OF WIRELESS (RADIO) AND THE MORSE CODE U.S. RADIO FREQUENCY ALLOCATIONS INTRODUCTION TO VECTORS AC ANALYSIS AND WHY COMPLEX NUMBERS AND IMPEDANCE ARE USED CIRCUIT AND ANTENNA RECIPROCITY DECIBEL MEASURE MAXIMUM POWER TRANSFER SKIN EFFECT COMPUTER SIMULATION AND OPTIMIZATION OF NETWORKS LC MATCHING OF ONE IMPEDANCE TO ANOTHER COUPLED RESONATORS UNIFORM TRANSMISSION LINES FOR PROPAGATION VSWR, RETURN LOSS AND MISMATCH ERROR THE TELEGRAPHER EQUATIONS (DERIVED) PHASE AND GROUP VELOCITIES THE IMPEDANCE TRANSFORMATION EQUATION FOR LINES (DERIVED) FANO'S AND BODE'S MATCHING LIMITS THE SMITH CHART (DERIVED) SLOTTED LINE IMPEDANCE MEASUREMENT CONSTANT Q CIRCLES ON THE SMITH CHART APPROXIMATING A TRANSMISSION LINE WITH LUMPED L'S AND C'S ABCD, Z, Y AND SCATTERING MATRIX ANALYSIS METHODS FOR CIRCUITS STATIST
BASIC MICROWAVE TECHNIQUES AND LABORATORY MANUAL
- M. L. SISODIA 1987

MILLIMETER WAVE TECHNIQUES - W. CULSHAW 1960

MICROWAVE AND LASER TECHNIQUES AS FLIGHT VEHICLE POWER TRANSMISSION SUBSYSTEMS - JAMES D. REAMS

1963

AMERICAN NATIONAL STANDARD TECHNIQUES AND INSTRUMENTATION FOR THE MEASUREMENT OF POTENTIALLY HAZARDOUS ELECTROMAGNETIC RADIATION AT MICROWAVE FREQUENCIES - 1973

RF / MICROWAVE INTERACTION WITH BIOLOGICAL TISSUES -
ANDR[?] VANDER VORST 2006-02-06

FROM ENGINEERING FUNDAMENTALS TO CUTTING-EDGE CLINICAL APPLICATIONS THIS BOOK EXAMINES THE BIOLOGICAL EFFECTS OF RF/MICROWAVES AND THEIR MEDICAL APPLICATIONS. READERS WILL DISCOVER NEW DEVELOPMENTS IN THERAPEUTIC APPLICATIONS IN SUCH AREAS AS CARDIOLOGY, UROLOGY, SURGERY, OPHTHALMOLOGY, AND ONCOLOGY. THE AUTHORS ALSO PRESENT DEVELOPING APPLICATIONS IN SUCH AREAS AS CANCER DETECTION AND ORGANIMAGING. FOCUSING ON FREQUENCY RANGES FROM 100 KHz TO 10 GHz, RF/MICROWAVE INTERACTION WITH BIOLOGICAL TISSUES IS DIVIDED INTO SIX CHAPTERS: * FUNDAMENTALS IN ELECTROMAGNETICS--EXAMINES PENETRATION OF RF/MICROWAVES INTO BIOLOGICAL TISSUES; SKIN EFFECT; RELAXATION EFFECTS IN MATERIALS AND THE COLE-COLE MODEL (DISPLAY); THE NEARFIELD OF AN ANTENNA; BLACKBODY RADIATION AND THE VARIOUS ASSOCIATED LAWS; AND MICROWAVE MEASUREMENTS. *

RF/MICROWAVE INTERACTION MECHANISMS IN BIOLOGICAL MATERIALS--INCLUDES A SECTION DEVOTED TO THE FUNDAMENTALS OF THERMODYNAMICS AND A DISCUSSION ON ENERGY AND ENTROPY. * BIOLOGICAL EFFECTS-- INVESTIGATES THE EFFECTS OF RADIO FREQUENCY FIELDS ON THE NERVOUS SYSTEM, THE BRAIN AND SPINAL CORD, THE BLOOD-BRAIN BARRIER, AND CELLS AND MEMBRANES. * THERMAL THERAPY--INCLUDES A DESCRIPTION OF APPLICATORS AND AN EXTENSIVE DISCUSSION ON THE FOUNDATION OF DIELECTRIC HEATING AND INDUCTIVE HEATING. * EM-WAVE ABSORBERS PROTECTING THE BIOLOGICAL AND MEDICAL ENVIRONMENT--INVESTIGATES MATERIALS FOR EM-WAVE ABSORBERS FROM BOTH A THEORETICAL AND APPLICATIONS PERSPECTIVE. SPECIAL ATTENTION IS GIVEN TO FERRITE ABSORBERS. * RF/MICROWAVE DELIVERY SYSTEMS FOR THERAPEUTIC APPLICATIONS--BEGINS WITH THE FUNDAMENTAL FEATURES OF MAJOR COMPONENTS USED IN RF/MICROWAVE DELIVERY SYSTEMS FOR THERAPEUTIC APPLICATIONS. NEW RESEARCH TOWARDS THE DEVELOPMENT OF FUTURE MEASUREMENT TECHNIQUES IS ALSO PRESENTED. THE BOOK FEATURES PROBLEM SETS AT THE END OF EACH CHAPTER, MAKING IT AN EXCELLENT INTRODUCTION FOR BIOENGINEERING AND ENGINEERING STUDENTS. RESEARCHERS, PHYSICIANS, AND TECHNICIANS IN THE FIELD WILL ALSO FIND THIS AN EXCELLENT REFERENCE THAT OFFERS ALL THE FUNDAMENTALS, THE MOST CUTTING-EDGE APPLICATIONS,

AND INSIGHT INTO FUTURE DEVELOPMENTS. AN INSTRUCTOR'S MANUAL PRESENTING DETAILED SOLUTIONS TO ALL THE PROBLEMS IN THE BOOK IS AVAILABLE FROM THE WILEY EDITORIAL DEPARTMENT.

ALTERNATIVE ENERGY SOURCES FOR GREEN CHEMISTRY - GEORGIOS STEFANIDIS 2016-08-24

THE USE OF ALTERNATIVE ENERGY FORMS AND TRANSFER MECHANISMS IS ONE OF THE KEY APPROACHES OF PROCESS INTENSIFICATION. IN RECENT YEARS, SIGNIFICANT AMOUNTS OF RESEARCH HAVE BEEN CARRIED OUT IN DEVELOPING CHEMICAL PROCESSING TECHNOLOGIES ENHANCED BY PLASMA, ELECTRIC AND MAGNETIC FIELDS, ELECTROMAGNETIC AND ULTRA-SOUND WAVES AND HIGH GRAVITY FIELDS. DISCUSSING THE BROAD IMPACT OF ALTERNATIVE ENERGY TRANSFER TECHNOLOGIES ON REACTIONS, SEPARATIONS AND MATERIALS SYNTHESIS, THIS BOOK REPORTS ON RECENT BREAKTHROUGH RESULTS IN VARIOUS APPLICATION AREAS. IT PROVIDES A COMPREHENSIVE OVERVIEW OF THE CURRENT DEVELOPMENTS IN THE FIELD. THE BOOK ENABLES INDUSTRIALISTS, ACADEMICS AND POSTGRADUATES IN ALTERNATIVE-ENERGY BASED PROCESSING TO SEE THE POTENTIAL OF ALTERNATIVE ENERGIES FOR GREEN CHEMISTRY AND SUSTAINABILITY OF CHEMICAL MANUFACTURING.

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.

THIRD INTERNATIONAL SYMPOSIUM, CANCER THERAPY BY HYPERTHERMIA, DRUGS, AND RADIATION - 1982

HIGH MAGNETIC FIELDS - CLAUDE BERTHIER 2001

THE QUANTUM HALL EFFECT, LOW-DIMENSIONAL SYSTEMS, VORTICES AND SUPERCONDUCTIVITY, HIGH-RESOLUTION NMR AND EPR SPECTROSCOPY - ALL THESE AND MANY OTHER LANDMARK CONTRIBUTIONS OF HIGH-MAGNETIC-FIELD PHYSICS TO SOLID STATE SCIENCE, ANALYTICAL CHEMISTRY AND STRUCTURAL BIOLOGY ARE PRESENTED IN THIS BOOK. EACH CHAPTER DESCRIBES THE KEY CONCEPTS AND FUTURE

PROSPECTS IN THE CORRESPONDING FIELD. THE TEXT CAN BE READ AT DIFFERENT LEVELS: RESEARCHERS WILL FIND DEPTH AND INSIGHT, WHILE STUDENTS WILL COME TO UNDERSTAND THE BASIC CONCEPTS. THIS BOOK, WRITTEN BY LEADING SCIENTISTS, WILL SERVE AS A REFERENCE WORK ON HIGH-MAGNETIC-FIELD SCIENCE FOR MANY YEARS TO COME.

NATO CONFERENCE ON MICROWAVE TECHNIQUES -

MICROWAVE TECHNIQUES - MASSACHUSETTS INSTITUTE OF TECHNOLOGY. RADIATION LABORATORY 1945

THE MEASUREMENT OF MICROWAVE POWER BY RADIATION PRESSURE EMPLOYING RESONANCE TECHNIQUES - H. A. FRENCH 1957

INDUSTRIAL MICROWAVE SENSORS - EBBE NYFORS 1989
TEXTBOOK DESIGNED FOR AN ADVANCED UNDERGRADUATE COURSE IN INDUSTRIAL APPLICATIONS OF MICROWAVES. PROVIDES KNOWLEDGE ABOUT THE POSSIBILITIES OF THE MICROWAVE TECHNIQUE IN IMPLEMENTING PRACTICAL MEASUREMENT SENSORS. KNOWLEDGE OF THE FUNDAMENTALS OF PHYSICS AND ELECTRONICS IS ASSUMED. ANNOTATION COPYRI

SEPARATION TECHNIQUES IN CLINICAL CHEMISTRY - HASSAN Y. ABOUL-ENEIN 2003-05-28

THIS REFERENCE EXAMINES INNOVATIONS IN SEPARATION

SCIENCE FOR IMPROVED SENSITIVITY AND COST-EFFICIENCY, INCREASED SPEED, HIGHER SAMPLE THROUGHPUT AND LOWER SOLVENT CONSUMPTION IN THE ASSESSMENT, EVALUATION, AND VALIDATION OF EMERGING DRUG COMPOUNDS. IT INVESTIGATES BREAKTHROUGHS IN SAMPLE PRETREATMENT, HPLC, MASS SPECTROMETRY, CAPILLARY ELECTROPHORIS. THIRD INTERNATIONAL SYMPOSIUM, CANCER THERAPY BY HYPERTHERMIA, DRUGS, AND RADIATION - NATIONAL CANCER INSTITUTE (U.S.) 1982

PHYSICAL PRINCIPLES OF FAR-INFRARED RADIATION - 1973-09-21

PHYSICAL PRINCIPLES OF FAR-INFRARED RADIATION
RECENT TRENDS IN RADIATION CHEMISTRY - JAMES F. WISHART 2010

THIS VOLUME IS A REVIEW OF THE TRENDS IN THE FIELD OF RADIATION CHEMISTRY RESEARCH. IT COVERS A BROAD SPECTRUM OF TOPICS, RANGING FROM THE HISTORICAL PERSPECTIVE, INSTRUMENTATION OF ACCELERATORS IN THE NANOSECOND TO FEMTOSECOND REGION, THROUGH THE USE OF RADIATION CHEMICAL METHODS IN THE STUDY OF ANTIOXIDANTS AND NANOMATERIALS, RADIATION-INDUCED DNA DAMAGE BY IONIZING RADIATION INVOLVING BOTH DIRECT AND INDIRECT EFFECTS, TO ULTRAFAST EVENTS IN FREE ELECTRON TRANSFER, RADIATION-INDUCED PROCESSES AT SOLID-LIQUID INTERFACES AND THE RECENT WORK ON INFRARED

SPECTROSCOPY AND RADIATION CHEMISTRY. THE BOOK IS UNIQUE IN THAT IT COVERS A WIDE SPECTRUM OF TOPICS THAT WILL BE OF GREAT INTEREST TO BEGINNERS AS WELL AS EXPERTS. RECENT DATA ON ULTRAFAST PHENOMENA FROM THE RECENTLY ESTABLISHED WORLD-CLASS LASER-DRIVEN ACCELERATORS FACILITIES IN THE US, FRANCE AND JAPAN ARE REVIEWED.

TECHNIQUES AND INSTRUMENTATION FOR THE MEASUREMENT OF POTENTIALLY HAZARDOUS ELECTROMAGNETIC RADIATION AT MICROWAVE FREQUENCIES - AMERICAN NATIONAL STANDARDS INSTITUTE 1973

LEGISLATIVE HISTORY OF RADIATION CONTROL FOR HEALTH AND SAFETY ACT OF 1968: 1,001-2,000 - UNITED STATES. BUREAU OF RADIOLOGICAL HEALTH 1975

TECHNIQUE OF MICROWAVE MEASUREMENTS - CAROL GRAY MONTGOMERY 1964

RECENT ADVANCES IN PLASMA DIAGNOSTICS: MICROWAVE TECHNIQUES - VOLODYMYR TARASOVYCH TOLOK 1971

RADIATION LABORATORY SERIES - 1947

ADVANCES IN MICROWAVE AND RADIO FREQUENCY PROCESSING - M. WILLERT-PORADA 2007-05-17

PROMETHEUS BROUGHT FIRE TO MANKIND ARTHUR R. VON HIPPEL "DIELECTRICS AND WAVES", 1954 OUR CONTRIBUTION? THERE ARE ONLY FEW AREAS OF RESEARCH AND DEVELOPMENT OF A COMPARABLE SCIENTIFIC AND TECHNOLOGICAL EXTENSION AS MICROWAVE AND HIGH FREQUENCY PROCESSING. "PROCESSING" MEANS NOT ONLY APPLICATION OF RADIATION OF 300 MHz TO 300 GHz FREQUENCY TO SYNTHESIS, HEATING OR IONISATION OF MATTER BUT ALSO GENERATION, TRANSMISSION AND DETECTION OF MICROWAVE AND RADIO FREQUENCY RADIATION. MICROWAVE AND HIGH FREQUENCY SOURCES POSITIONED IN THE ORBIT ARE THE FOUNDATION OF MODERN SATELLITE TELECOMMUNICATION SYSTEMS, GYROTRON TUBES BEING PRESENTLY DEVELOPED IN DIFFERENT COUNTRIES ALL OVER THE WORLD WILL MOST PROBABLY BE THE MAJOR DEVICES TO OPEN UP A NEW ERA OF ENERGY SUPPLY TO MANKIND BY MEANS OF IONOSPHERIC PLASMA. ALTHOUGH INITIATED BY MILITARY PURPOSES DURING THE SECOND WORLD WAR (RADAR, RADIO DETECTION AND RANGING), MICROWAVE AND HIGH FREQUENCY UTILISATION HAS SPREAD OVER ALMOST EVERY IMPORTANT ASPECT OF NORMAL DAY LIFE SINCE THEN, FROM INDIVIDUAL MOBILE PHONES AND KITCHEN MICROWAVE OVENS TO INDUSTRIAL FOOD PROCESSING, PRODUCTION OF COMPOSITES AS SUSTAINABLE BUILDING MATERIALS, GREEN CHEMISTRY, MEDICAL APPLICATIONS AND FINALLY INFRASTRUCTURE INSTALLATIONS LIKE GPS AND GALILEO, TO NAME ONLY FEW

EXAMPLES. THESE DIFFERENT AREAS OF MICROWAVE AND HIGH FREQUENCY RADIATION APPLICATION CAN NOT BE UNIFIED WITHIN ONE GROUP OF SCIENTISTS AND TECHNOLOGISTS. THERE ARE SEVERAL DISTINGUISHED COMMUNITIES ACTIVE E.G., IN THE AREA OF TELECOMMUNICATION SYSTEMS, STRONG MICROWAVES FOR FUSION PLASMA OR PLASMA BASED MATERIALS PROCESSING.

BIOPHYSICAL TECHNIQUES FOR EXAMINING METABOLIC, PROLIFERATIVE, AND GENETIC EFFECTS OF MICROWAVE RADIATION - MARTIN L. MELTZ 1991

MICROWAVE AND RADIO-FREQUENCY TECHNOLOGIES IN AGRICULTURE - MOHAN V. JACOB 2016-02-22

HUMANITY'S ABILITY TO PRODUCE ENOUGH FOOD IS MOSTLY DUE TO ADOPTION OF NEW METHODS AND TECHNOLOGIES BY THE AGRICULTURAL INDUSTRIES AS THEY BECAME AVAILABLE. NEW INFORMATION, COMMUNICATION AND HIGH SPEED PROCESSING AND PRECISION AGRICULTURE TECHNOLOGIES HAVE THE POTENTIAL TO TRANSFORM THE AGRICULTURAL INDUSTRY. THESE TECHNOLOGIES INCORPORATE RADIO-FREQUENCY AND MICROWAVE RADIATION INTO THEIR SYSTEMS. THIS BOOK PRESENTS AN OVERVIEW OF HOW THESE TECHNOLOGIES ARE BEING USED IN AGRICULTURAL SYSTEMS. THE MAIN PURPOSE OF THE BOOK IS TO PROVIDE A GLIMPSE OF WHAT IS POSSIBLE AND ENCOURAGE PRACTITIONERS IN THE ENGINEERING AND AGRICULTURAL INDUSTRIES TO EXPLORE

HOW RADIO-FREQUENCY AND MICROWAVE SYSTEMS MIGHT FURTHER ENHANCE THE AGRICULTURAL INDUSTRY. THE AUTHORS HAVE EXTENSIVE EXPERIENCE IN AGRICULTURAL AND MICROWAVE ENGINEERING, INSTRUMENTATION AND COMMUNICATION SYSTEMS.

DEVELOPMENT OF MICROWAVE RADIATION THERAPY TECHNIQUES FOR TREATMENT OF MALIGNANT TUMORS - G. S. KHANDELWAL 1979

VLSI DESIGN - K. LAL KISHORE 2013-12-30

AIMED PRIMARILY FOR UNDERGRADUATE STUDENTS PURSUING COURSES IN VLSI DESIGN, THE BOOK EMPHASIZES THE PHYSICAL UNDERSTANDING OF UNDERLYING PRINCIPLES OF THE SUBJECT. IT NOT ONLY FOCUSES ON CIRCUIT DESIGN PROCESS OBEYING VLSI RULES BUT ALSO ON TECHNOLOGICAL ASPECTS OF FABRICATION. VHDL MODELING IS DISCUSSED AS THE DESIGN ENGINEER IS EXPECTED TO HAVE GOOD KNOWLEDGE OF IT. VARIOUS MODELING ISSUES OF VLSI DEVICES ARE FOCUSED WHICH INCLUDES NECESSARY DEVICE PHYSICS TO THE REQUIRED LEVEL. WITH SUCH AN IN-DEPTH COVERAGE AND PRACTICAL APPROACH PRACTISING ENGINEERS CAN ALSO USE THIS AS READY REFERENCE. KEY FEATURES: NUMEROUS PRACTICAL EXAMPLES. QUESTIONS WITH SOLUTIONS THAT REFLECT THE COMMON DOUBTS A BEGINNER ENCOUNTERS. DEVICE FABRICATION TECHNOLOGY. TESTING OF CMOS DEVICE BiCMOS TECHNOLOGICAL ISSUES. INDUSTRY TRENDS.

EMPHASIS ON VHDL.

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS - 1981