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FUNDAMENTALS OF ENGINEERING ELECTROMAGNETICS 2012-07-12 FUNDAMENTALS OF ENGINEERING ELECTROMAGNETICS IS DESIGNED FOR AN UNDERGRADUATE COURSE IN ELECTROMAGNETISM FOR STUDENTS OF ELECTRICAL AND ELECTRONICS AND COMMUNICATION ENGINEERING THE BOOK AIMS TO PROVIDE STUDENTS WITH UNDERSTANDING OF THE FUNDAMENTALS OF ELECTROMAGNETIC FIELDS AND THEIR APPLICATIONS IN ELECTRICAL ENGINEERING AND RELATED DOMAINS

ELECTROMAGNETIC FIELDS 2020-10-11 PRESENTS FUNDAMENTAL CONCEPTS OF ELECTROMAGNETIC FIELDS IN A SIMPLIFIED MANNER COVERS ONE TWO AND THREE DIMENSIONAL ELECTROSTATIC BOUNDARY VALUE PROBLEMS INVOLVING LAPLACIAN FIELDS AND POISSONION FIELDS INCLUDES EXCLUSIVE CHAPTERS ON EDDY CURRENTS AND ELECTROMAGNETIC COMPATIBILITY DISCUSSES IMPORTANT ASPECTS OF MAGNETO STATIC BOUNDARY VALUE PROBLEMS EXPLORES ALL THE BASIC VECTOR ALGEBRA AND VECTOR CALCULUS ALONG WITH COUPLE OF TWO AND THREE DIMENSIONAL PROBLEMS

FI ECTROMAGNETICS FOR FI ECTRICAL MACHINES 2018-10-08 FI ECTROMAGNETICS FOR FI ECTRICAL MACHINES OFFERS A COMPREHENSIVE YET ACCESSIBLE TREATMENT OF THE LINEAR THEORY OF ELECTROMAGNETICS AND ITS APPLICATION TO THE DESIGN OF ELECTRICAL MACHINES LEVERAGING VALUABLE CLASSROOM INSIGHT GAINED BY THE AUTHORS DURING THEIR IMPRESSIVE AND ONGOING TEACHING CAREERS THIS TEXT EMPHASIZES CONCEPTS RATHER THAN NUMERICAL METHODS PROVIDING PRESENTATION PROJECT PROBLEMS AT THE END OF EACH CHAPTER TO ENHANCE SUBJECT KNOWLEDGE HIGHLIGHTING THE ESSENCE OF ELECTROMAGNETIC FIELD EMF THEORY AND ITS CORRELATION WITH ELECTRICAL MACHINES THIS BOOK REVIEWS MAXWELL S EQUATIONS AND SCALAR AND VECTOR POTENTIALS DESCRIBES THE SPECIAL CASES LEADING TO THE LAPLACE POISSON S EDDY CURRENT AND WAVE EQUATIONS EXPLORES THE UTILITY OF THE UNIQUENESS GENERALIZED POYNTING HELMHOLTZ AND APPROXIMATION THEOREMS DISCUSSES THE SCHWARZ CHRISTOFFEL TRANSFORMATION AS WELL AS THE DETERMINATION OF AIRGAP PERMEANCE ADDRESSES THE SKIN FEFECTS IN CIRCUIL AR CONDUCTORS AND EDDY CURRENTS IN SOLID AND LAMINATED IRON CORES CONTAINS EXAMPLES RELATING TO THE SLOT LEAKAGE INDUCTANCE OF ROTATING ELECTRICAL MACHINES TRANSFORMER LEAKAGE INDUCTANCE AND THEORY OF HYSTERESIS MACHINES PRESENTS ANALYSES OF EMFS IN LAMINATED ROTOR INDUCTION MACHINES THREE DIMENSIONAL FIELD ANALYSES FOR THREE PHASE SOLID ROTOR INDUCTION MACHINES AND MORE ELECTROMAGNETICS FOR ELECTRICAL MACHINES MAKES AN IDEAL TEXT FOR POSTGRADUATE LEVEL STUDENTS OF ELECTRICAL ENGINEERING AS WELL AS OF PHYSICS AND ELECTRONICS AND COMMUNICATION ENGINEERING IT IS ALSO A USEFUL REFERENCE FOR RESEARCH SCHOLARS CONCERNED WITH PROBLEMS INVOLVING FLECTROMAGNETICS THE SUMMARY OF ENGINEERING RESEARCH 1985 ENERGY AND POWER ARE FUNDAMENTAL CONCEPTS IN ELECTROMAGNETISM AND CIRCUIT THEORY AS WELL AS IN OPTICS SIGNAL PROCESSING POWER ENGINEERING ELECTRICAL MACHINES AND POWER ELECTRONICS HOWEVER IN CROSSING THE DISCIPLINARY BORDERS WE ENCOUNTER UNDERSTANDING DIFFICULTIES DUE TO 1 THE MANY POSSIBLE MATHEMATICAL REPRESENTATIONS OF THE SAME PHYSICAL OBJECTS AND 2 THE MANY POSSIBLE PHYSICAL INTERPRETATIONS OF THE SAME MATHEMATICAL ENTITIES THE MONOGRAPH PROPOSES A QUANTUM AND A RELATIVISTIC APPROACH TO ELECTROMAGNETIC POWER THEORY THAT IS BASED ON

RECENT ADVANCES IN PHYSICS AND MATHEMATICS THE BOOK TAKES A FRESH LOOK AT OLD DEBATES RELATED TO THE SIGNIFICANCE OF THE POYNTING THEOREM AND THE INTERPRETATION OF REACTIVE POWER REFORMULATED IN THE MATHEMATICAL LANGUAGE OF GEOMETRIC ALGEBRA THE NEW EXPRESSION OF ELECTROMAGNETIC POWER REFLECTS THE LAWS OF CONSERVATION OF ENERGY MOMENTUM IN FIELDS AND CIRCUITS THE MONOGRAPH OFFERS A MATHEMATICALLY CONSISTENT AND A PHYSICALLY COHERENT INTERPRETATION OF THE POWER CONCEPT AND OF THE MECHANISM OF POWER TRANSMISSION AT THE SUBATOMIC MESOSCOPIC LEVEL THE MONOGRAPH PROVES PARAPHRASING HEAVISIDE THAT THERE IS NO FINALITY IN THE DEVELOPMENT OF A VIBRANT DISCIPLINE POWER THEORY

BRIDGING CIRCUITS AND FIELDS 2021-11-30 THE BOOK COVERS FUNDAMENTALS AND BASICS OF ENGINEERING COMMUNICATION THEORY IT PRESENTS RIGHT MIX OF EXPLANATION OF MATHEMATICS THEORY AND EXPLANATION THE BOOK DISCUSSES BOTH ANALOGUE COMMUNICATION AND DIGITAL COMMUNICATION IN DETAILS IT COVERS THE SUBJECT OF CLASSICAL ENGINEERING COMMUNICATION STARTING FROM THE VERY BASICS OF THE SUBJECT TO THE BEGINNING OF MORE ADVANCED AREAS IT ALSO COVERS ALL THE BASIC MATHEMATICS WHICH IS REQUIRED TO READ THE TEXT IT COVERS A TWO SEMESTER COURSE AS AN UNDERGRADUATE TEXT AND SOME TOPICS IN MASTER'S COURSE AS WELL FUNDAMENTALS OF ANALOGUE AND DIGITAL COMMUNICATION SYSTEMS 2021-10-03 IN DEPTH ANALYSIS OF THE THEORY PROPERTIES AND DESCRIPTION OF THE MOST POTENTIAL TECHNOLOGICAL APPLICATIONS OF METAMATERIALS FOR THE REALIZATION OF NOVEL DEVICES SUCH AS SUBWAVELENGTH LENSES INVISIBILITY CLOAKS DIPOLE AND REFLECTOR ANTENNAS HIGH FREQUENCY TELECOMMUNICATIONS NEW DESIGNS OF BANDPASS FILTERS ABSORBERS AND CONCENTRATORS OF FM WAVES FTC IN ORDER TO CREATE A NEW DEVICES IT IS NECESSARY TO KNOW THE MAIN ELECTRODYNAMICAL CHARACTERISTICS OF METAMATERIAL STRUCTURES ON THE BASIS OF WHICH THE DEVICE IS SUPPOSED TO BE CREATED THE ELECTROMAGNETIC WAVE SCATTERING SURFACES BUILT WITH METAMATERIALS ARE PRIMARILY BASED ON THE ABILITY OF METAMATERIALS TO CONTROL THE SURROUNDED ELECTROMAGNETIC FIELDS BY VARYING THEIR PERMEABILITY AND PERMITTIVITY CHARACTERISTICS THE BOOK COVERS SOME SOI UTIONS FOR MICROWAVE WAVELENGTH SCALES AS WELL AS EXPLOITATION OF NANOSCALE EM WAVELENGTH SUCH AS VISIBLE SPECTER USING RECENT ADVANCES OF NANOTECHNOLOGY FOR INSTANCE IN THE FIELD OF NANOWIRES NANOPOLYMERS CARBON NANOTUBES AND GRAPHENE METAMATERIAL IS SUITABLE FOR SCHOLARS FROM EXTREMELY LARGE SCIENTIFIC DOMAIN AND THEREFORE GIVEN TO ENGINEERS SCIENTISTS GRADUATES AND OTHER INTERESTED PROFESSIONALS FROM PHOTONICS TO NANOSCIENCE AND FROM MATERIAL SCIENCE TO ANTENNA ENGINEERING AS A COMPREHENSIVE REFERENCE ON THIS ARTIFICIAL MATERIALS OF TOMORROW METAMATERIAL 2012-05-16 A STATE OF THE ART PRESENTATION OF MILLIMETER WAVE TECHNOLOGY CONTAINS A COMPREHENSIVE YET BROAD SPECTRUM OF TOPICS ON GENERATION PROPAGATION COMPONENTS CIRCUITS ANTENNAS AND APPLICATIONS DISCUSSES THE IMPORTANCE OF THIS NEW COMMUNICATIONS TECHNOLOGY IN MILITARY AEROSPACE GOVERNMENTAL AND CIVIL COMMUNICATIONS SYSTEMS

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