

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

ELECTROMAGNETICS FOR ELECTRICAL MACHINES 2018-10-08 ELECTROMAGNETICS FOR ELECTRICAL 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 EFFECTS IN CIRCULAR 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 ELECTROMAGNETICS

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

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