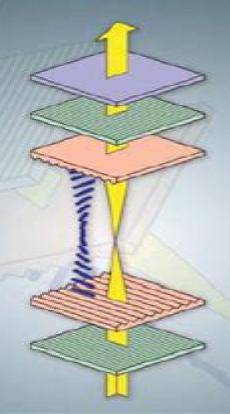
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that the number of CPU intensive high fidelity EM simulations is reduced as much as possible during the design process For the same reasons techniques for creating fast yet accurate models of microwave structures become crucially important In this edited book the authors strive to review the state of the art simulation driven microwave design optimization and modeling A group of international experts specialized in various aspects of microwave computer aided design summarize and review a wide range of the latest developments and real world applications Topics include conventional and surrogate based design optimization techniques methods exploiting adjoint sensitivity simulation based tuning space mapping and several modeling methodologies such as artificial neural networks and kriging Applications and case studies include microwave filters antennas substrate integrated structures and various active components and circuits The book also contains a few introductory chapters highlighting the fundamentals of optimization and modeling gradient based and derivative free algorithms metaheuristics and surrogate based optimization techniques as well as finite difference and finite element methods a Design of Rotating Electrical Machines Juha Pyrhonen, Tapani Jokinen, Valeria Hrabovcova, 2013-09-26 In one complete volume this essential reference presents an in depth overview of the theoretical principles and techniques of electrical machine design This timely new edition offers up to date theory and guidelines for the design of electrical machines taking into account recent advances in permanent magnet machines as well as synchronous reluctance machines New coverage includes Brand new material on the ecological impact of the motors covering the eco design principles of rotating electrical machines An expanded section on the design of permanent magnet synchronous machines now reporting on the design of tooth coil high torque permanent magnet machines and their properties Large updates and new material on synchronous reluctance machines air gap inductance losses in and resistivity of permanent magnets PM operating point of loaded PM circuit PM machine design and minimizing the losses in electrical machines End of chapter exercises and new direct design examples with methods and solutions to real design problems A supplementary website hosts two machine design examples created with MATHCAD rotor surface magnet permanent magnet machine and squirrel cage induction machine calculations Also a MATLAB code for optimizing the design of an induction motor is provided Outlining a step by step sequence of machine design this book enables electrical machine designers to design rotating electrical machines With a thorough treatment of all existing and emerging technologies in the field it is a useful manual for professionals working in the diagnosis of electrical machines and drives A rigorous introduction to the theoretical principles and techniques makes the book invaluable to senior electrical engineering students postgraduates researchers and university lecturers involved in electrical drives technology and electromechanical energy conversion From ER to E.T. Rajeev Bansal, 2017-01-04 This book covers the study of electromagnetic wave theory and describes how electromagnetic technologies affect our daily lives From ER to ET How Electromagnetic Technologies Are Changing Our Lives explores electromagnetic wave theory including its founders scientific underpinnings ethical issues and applications through history Utilizing a format of short essays this

book explains in a balanced and direct style how electromagnetic technologies are changing the world we live in and the future they may create for us Quizzes at the end of each chapter provide the reader with a deeper understanding of the material This book is a valuable resource for microwave engineers of varying levels of experience and for instructors to motivate their students and add depth to their assignments In addition this book Presents topics that investigate all aspects of electromagnetic technology throughout history Explores societal and global issues that relate to the field of electrical engineering emphasized in current ABET accreditation criteria Includes guizzes relevant to every essay and answers which explain technical perspectives Rajeev Bansal PhD is a professor of Electrical and Computer Engineering at the University of Connecticut He is a member of IEEE and the Connecticut Academy of Science and Engineering He is a Fellow of the Electromagnetics Academy His editing credits include Fundamentals of Engineering Electromagnetics and Engineering Electromagnetics Applications Dr Bansal contributes regular columns to IEEE Antennas and Propagation Magazine and IEEE Microwave Magazine Electrical Machine Drives Control Juha Pyrhonen, Valeria Hrabovcova, R. Scott Semken, 2016-10-03 This comprehensive text examines existing and emerging electrical drive technologies. The authors clearly define the most basic electrical drive concepts and go on to explain the most important details while maintaining a solid connection to the theory and design of the associated electrical machines Also including links to a number of industrial applications the authors take their investigation of electrical drives beyond theory to examine a number of practical aspects of electrical drive control and application Key features Provides a comprehensive summary of all aspects of controlled speed electrical drive technology including control and operation Handling of electrical drives is solidly linked to the theory and design of the associated electrical machines Added insight into problems and functions are illustrated with clearly understandable figures Offers an understanding of the main phenomena associated with electrical machine drives Considers the problem of bearing currents and voltage stresses of an electrical drive Includes up to date theory and design guidelines taking into account the most recent advances This book s rigorous coverage of theoretical principles and techniques makes for an excellent introduction to controlled speed electrical drive technologies for Electrical Engineering MSc or PhD students studying electrical drives It also serves as an excellent reference for practicing electrical engineers looking to carry out design analyses and development of controlled speed electrical drives Principles and Applications of RF/Microwave in Healthcare and Biosensing Changzhi Li, Mohammad-Reza Tofighi, Dominique Schreurs, Tzyy-Sheng Jason Horng, 2016-10-05 This reference written by leading authorities in the field gives basic theory implementation details advanced research and applications of RF and microwave in healthcare and biosensing It first provides a solid understanding of the fundamentals with coverage of the basics of microwave engineering and the interaction between electromagnetic waves and biomaterials It then presents the state of the art development in microwave biosensing implantable devices including applications of microwave technology for sensing biological tissues and medical diagnosis along with applications involving remote patient monitoring this book is an ideal

reference for RF and microwave engineer working on or thinking of working on the applications of RF and Microwave technology in medicine and biology Learn The fundamentals of RF and microwave engineering in healthcare and biosensing How to combine biological and medical aspects of the field with underlying engineering concepts How to implement microwave biosensing for material characterization and cancer diagnosis Applications and functioning of wireless implantable biomedical devices and microwave non contact biomedical radars How to combine devices systems and methods for new practical applications The first book to review the fundamentals latest developments and future trends in this important emerging field with emphasis on engineering aspects of sensing monitoring and diagnosis using RF and Microwave Extensive coverage of biosensing applications are included Written by leaders in the field including members of the Technical Coordinating Committee of the Biological Effects and Medical Applications of the IEEE Microwave Theory and Techniques **Electromagnetic Fields** Ahmad Shahid Khan, Saurabh Kumar Mukerji, 2020-10-11 The study of electromagnetic field theory is required for proper understanding of every device wherein electricity is used for operation The proposed textbook on electromagnetic fields covers all the generic and unconventional topics including electrostatic boundary value problems involving two and three dimensional Laplacian fields and one and two dimensional Poissonion fields magnetostatic boundary value problems eddy currents and electromagnetic compatibility. The subject matter is supported by practical applications illustrations to supplement the theory solved numerical problems solutions manual and Powerpoint slides including appendices and mathematical relations Aimed at undergraduate senior undergraduate students of electrical and electronics engineering it 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 Compact Slot Array Antennas for Wireless Communications Alan J. Sangster, 2018-11-11 This book dimensional problems describes and provides design guidelines for antennas that achieve compactness by using the slot radiator as the fundamental building block within a periodic array rather than a phased array It provides the basic electromagnetic tools required to design and analyse these novel antennas with sample calculations where relevant The book presents a focused introduction and valuable insights into the relevant antenna technology together with an overview of the main directions in the evolving technology of compact planar arrays While the book discusses the historical evolution of compact array antennas its main focus is on summarising the extensive body of literature on compact antennas With regard to the now ubiquitous slot radiator it seeks to demonstrate how despite significant antenna size reductions that at times even seem to defy the laws of physics desirable radiation pattern properties can be preserved. This is supported by an examination of recent advances in frequency selective surfaces and in metamaterials which can if handled correctly be used to facilitate physics defying designs

The book offers a valuable source of information for communication systems and antenna design engineers especially thanks to its overview of trends in compact planar arrays yet will also be of interest to students and researchers as it provides a focused introduction and insights into this highly relevant antenna technology **Instructor's Manual with Solutions to Accompany Electrical and Electronics Fundamentals* Vincent A. Suprynowicz, 1987 **Principles of Electromagnetic**

Waves and Materials* Dikshitulu K. Kalluri, 2017-11-14 This book focuses primarily on senior undergraduates and graduates in Electromagnetics Waves and Materials courses The book takes an integrative approach to the subject of electromagnetics by supplementing quintessential old school information and methods with instruction in the use of new commercial software such as MATLAB Homework problems PowerPoint slides an instructor s manual a solutions manual MATLAB downloads quizzes and suggested examination problems are included Revised throughout this new edition includes two key new chapters on artificial electromagnetic materials and electromagnetics of moving media

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