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IV. Fields and forces: L15: Dielectric waveguides. Demo: evanescent waves : L16-L17 . Lecture 16. Energy in electric and magnetic fields; principle of virtual work to find electric and magnetic forces; magnetic circuit problems. Demo: H/M 11.6.2 force on a dielectric material (video) Lecture 17. Synchronous rotating machines. Film: Synchronous ...

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Fields and Waves in Communication Electronics. The text helps define the second electromagnetic course that electrical engineers take in their senior year. This rigorous book on engineering electromagnetic fields and waves topics is packed with useful derivations and applications. Very well known text and authors.

This revised text covers electromagnetic waves and fields in great detail. It begins with a review of static electric and magnetic fields, providing results useful for static fields and time-dependent field problems in which the size of the device is small compared with the wavelength.

The book Electromagnetic Field Theory caters to the students of BE/BTech Electronics and Communication Engineering, Electrical and Electronics Engineering, and Electronic Instrumentation Engineering, as electromagnetics is an integral part of their curricula. It covers a wide range of topics that deal with various physical and mathematical concepts, including vector functions, coordinate systems, integration and differentiation, complex numbers, and phasors. The book helps in understanding the electric and magnetic fields on different charge and current distributions, such as line, surface, and volume. It also explains the electromagnetic behaviour of waves, fields in transmission lines, and radiation in antennas. A number of electromagnetic applications are also included to develop the interest of students. **SALIENT FEATURES** • Simple and easy-to-follow text • Complete coverage of the subject as per the syllabi of most universities • Lucid, well-explained concepts with clear examples • Relevant illustrations for better understanding and retention • Some of the illustrations provide three-dimensional view for in-depth knowledge • Numerous mathematical examples for full clarity of concepts • Chapter objectives at the beginning of each chapter for its overview • Chapter-end summary and exercises for quick review and to test your knowledge

Teaching Electromagnetics: Innovative Approaches and Pedagogical Strategies is a guide for educators addressing course content and pedagogical methods primarily at the undergraduate level in electromagnetic theory and its applications. Topics include teaching methods, lab experiences and hands-on learning, and course structures that help teachers respond effectively to trends in learning styles and evolving engineering curricula. The book grapples with issues related to the recent worldwide shift to remote teaching. Each chapter begins with a high-level consideration of the topic, reviews previous work and publications, and gives the reader a broad picture of the topic before delving into details. Chapters include specific guidance for those who want to implement the methods and assessment results and evaluation of the effectiveness of the methods. Respecting the limited time available to the average teacher to try new methods, the chapters focus on why an instructor should adopt the methods proposed in it. Topics include virtual laboratories, computer-assisted learning, and MATLAB® tools. The authors also review flipped classrooms and online teaching methods that support remote teaching and learning. The end result should be an impact on the reader represented by improvements to his or her practical teaching methods and curricular approach to electromagnetics education. The book is intended for electrical engineering professors, students, lab instructors, and practicing engineers with an interest in teaching and learning. In summary, this book: Surveys methods and tools for teaching the foundations of wireless communications and electromagnetic theory Presents practical experience and best practices for topical coverage, course sequencing, and content Covers virtual laboratories, computer-assisted learning, and MATLAB tools Reviews flipped classroom and online teaching methods that support remote teaching and learning Helps instructors in RF systems, field theory, and wireless communications bring their teaching practice up to date Dr. Krishnasamy T. Selvan is Professor in the Department of Electronics & Communication Engineering, SSN College of Engineering, since June 2012. Dr. Karl F. Warnick is Professor in the Department of Electrical and Computer Engineering at BYU.

Electromagnetism is the most pervasive force that exists in nature. Electromagnetic field theory is the study of characteristics of electric, magnetic and combined fields. The book is designed specifically to cater the needs of fourth semester students of B.Tech. in Electronics and Communications Engineering, JNTU. Simple, easy-to-understand and difficult-jargon-free text elucidates the fundamentals of the subject area and makes it a lasting resource for the students. **Salient Features:** Comprehensive coverage with lucid presentation style Rich exam-oriented pedagogy Unsolved review questions Objective-type questions

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