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"Electromagnetics" is a thorough text that enables readers to readily grasp EM fundamentals, develop true problem-solving skills, and really understand and like the material. It is meant as an "ultimate resource" for undergraduate electromagnetics."

This is a textbook on electromagnetic fields and waves completely based on conceptual understanding of electromagnetics. The text provides operational knowledge and firm grasp of electromagnetic fundamentals aimed toward practical engineering applications by combining fundamental theory and a unique and comprehensive collection of as many as 888 conceptual questions and problems in electromagnetics. Conceptual questions are designed to strongly

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enforce and enhance both the theoretical concepts and understanding and problem-solving techniques and skills in electromagnetics.

This title can be used to either complement another electromagnetics text, or as an independent resource. Designed primarily for undergraduate electromagnetics, it can also be used in follow-up courses on antennas, propagation, microwaves, advanced electromagnetic theory, computational electromagnetics, electrical machines, signal integrity, etc. This title also provides practical content to current and aspiring industry professionals. MATLAB-Based Electromagnetics provides engineering and physics students and other users with an operational knowledge and firm grasp of electromagnetic fundamentals aimed toward practical engineering applications, by teaching them “hands on” electromagnetics through a unique and comprehensive collection of MATLAB computer exercises and projects. Essentially, the book unifies two themes: it presents and explains electromagnetics using MATLAB on one side, and develops and discusses MATLAB for electromagnetics on the other. MATLAB codes described (and listed) in TUTORIALS or proposed in other exercises provide prolonged benefits of learning. By running codes; generating results, figures, and diagrams; playing movies and animations; and solving a large variety of problems in MATLAB, in class, with peers in study groups, or individually,

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readers gain a deep understanding of electromagnetics.

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When Courant prepared the text of his 1942 address to the American Mathematical Society for publication, he added a two-page Appendix to illustrate how the variational methods first described by Lord Rayleigh could be put to wider use in potential theory. Choosing piecewise-linear approximants on a set of triangles which he called

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elements, he dashed off a couple of two-dimensional examples and the finite element method was born. Finite element activity in electrical engineering began in earnest about 1968-1969. A paper on waveguide analysis was published in *Alta Frequenza* in early 1969, giving the details of a finite element formulation of the classical hollow waveguide problem. It was followed by a rapid succession of papers on magnetic fields in saturable materials, dielectric loaded waveguides, and other well-known boundary value problems of electromagnetics. In the decade of the eighties, finite element methods spread quickly. In several technical areas, they assumed a dominant role in field problems. P.P. Silvester, San Miniato (PI), Italy, 1992 Early in the nineties the International Workshop on Finite Elements for Microwave Engineering started. This volume contains the history of the Workshop and the Proceedings of the 13th edition, Florence (Italy), 2016 . The 14th Workshop will be in Cartagena (Colombia), 2018.

Modern Introductory Electromagnetics relates physical principles to engineering practice with a number of application deriving mathematical tools from physical concepts when needed.

Engaging students in active learning is a predominant theme in today's classrooms. To promote active learning, teachers across the

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disciplines and in all kinds of colleges are incorporating collaborative learning into their teaching. Collaborative Learning Techniques is a scholarly and well-written handbook that guides teachers through all aspects of group work, providing solid information on what to do, how to do it, and why it is important to student learning. Synthesizing the relevant research and good practice literature, the authors present detailed procedures for thirty collaborative learning techniques (CoLTs) and offer practical suggestions on a wide range of topics, including how to form groups, assign roles, build team spirit, solve problems, and evaluate and grade student participation.

Water meters are the cornerstone of commercial systems for water utilities throughout the world; revenue is directly derived from the figures provided by meters. Despite this, little attention has been paid, in terms of selection, replacement period and return on investment, to the management and optimization of water meters. Integrated Water Meter Management is a comprehensive reference for engineers and managers alike, providing: in-depth technical information allowing the true nature and behaviour of meters to be understood; a comprehensive review and comparison of relevant global water meter technologies - a useful tool to help decide which water

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meter is best for your utility; discussion of key decisions concerning the use of water meters (when to replace them, which one to use, how to control their quality) from a managerial perspective. Integrated Water Meter Management is an invaluable resource for those involved in urban water management, including water utility managers, engineering technical staff, operations and maintenance specialists, meter-reading personnel and scientific researchers in this discipline.

Master the Latest Techniques to Quantify, Locate, Control, and Prevent Water and Revenue Loss in Water Utility Operations This comprehensive guide takes you step by step through every stage of the development of a water loss control program—from measuring and auditing water loss, tracking losses to their root cause, to developing a loss control program for future efficiency. Inside, you'll find precise descriptions of the most current methodologies and technologies, along with tables and figures presenting key information clearly and concisely. This second edition brings innovative approaches to water loss management, with information on new modeling methods, leak detection equipment, revenue protection programs, and best practices advocated by the American Water Works Association and the International Water Association. Includes: Updated U.S. and international standardized water audit methodologies Step-by-step

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guide to creating an effective water loss control program Guidance on data collection, validation, and component analysis of water supply and customer consumption volumes Detailed description of available intervention tools against real losses Detailed description of available intervention tools against apparent losses Innovations in automatic meter reading (AMR) and advanced metering infrastructure (AMI) that will transform accountability in the water supply industry Integrated technologies to optimize water distribution system operations Detailed descriptions and case studies of successful water loss control and intervention programs Comprehensive glossary of terms Water Loss Control Manual covers: Various Types of Water and Revenue Losses • Traditional Control Methods • Progressive Approaches • Standard Water Audit Methodology • Meaningful Performance Indicators • Data Collection • Information Management • Validating the Water Audit Data • Field Equipment • Computer Modeling • •Strategies and Methods to Control Leakage and Optimize Revenue Recovery • Active Leakage Detection and Repair • Pressure Management • Distribution System Rehabilitation • Water Efficiency Programs • Hiring Contractors • Writing Bids • Case Studies • Calculations • Industry Papers

This book introduces a coherent perspective on the self-regulatory career meta-capacities that individuals, as career agents, need to

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successfully manage their career development in a boundaryless occupational world. Enriched by empirical data and case studies by subject specialists in the fields, it serves as a cutting-edge benchmark for specialists, professionals and post-graduate students in the careers field to study. This book allows an in-depth view of the most recent research trends on the critical psycho-social constructs influencing the adaptation, adaptivity, adaptability and employability of individuals in a turbulent, uncertain and chaotic work world. In addition, it offers the practising professional new perspectives of career constructs and measures to consider in career counseling and guidance for the contemporary career.

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