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ENGINEERING ELECTROMAGNETICS

HANDBOOK OF ENGINEERING ELECTROMAGNETICS

CRC Press Engineers do not have the time to wade through rigorously theoretical books when trying to solve a problem. Beginners lack the expertise required to understand highly specialized treatments of individual topics. This is especially problematic for a field as broad as electromagnetics, which propagates into many diverse engineering fields. The time h

ENGINEERING ELECTROMAGNETICS

Springer This book provides students with a thorough theoretical understanding of electromagnetic field equations and it also treats a large number of applications. The text is a comprehensive two-semester textbook. The work treats most topics in two steps - a short, introductory chapter followed by a second chapter with in-depth extensive treatment; between 10 to 30 applications per topic; examples and exercises throughout the book; experiments, problems and summaries. The new edition includes: modifications to about 30-40% of the end of chapter problems; a new introduction to electromagnetics based on behavior of charges; a new section on units; MATLAB tools for solution of problems and demonstration of subjects; most chapters include a summary. The book is an undergraduate textbook at the Junior level, intended for required classes in electromagnetics. It is written in simple terms with all details of derivations included and all steps in solutions listed. It requires little beyond basic calculus and can be used for self-study. The wealth of examples and alternative explanations makes it very approachable by students. More than 400 examples and exercises, exercising every topic in the book Includes 600 end-of-

chapter problems, many of them applications or simplified applications Discusses the finite element, finite difference and method of moments in a dedicated chapter

ENGINEERING CIRCUIT ANALYSIS

ELECTROMAGNETIC FIELD THEORY FUNDAMENTALS

Cambridge University Press *Guru and Hizioglu* have produced an accessible and user-friendly text on electromagnetics that will appeal to both students and professors teaching this course. This lively book includes many worked examples and problems in every chapter, as well as chapter summaries and background revision material where appropriate. The book introduces undergraduate students to the basic concepts of electrostatic and magnetostatic fields, before moving on to cover Maxwell's equations, propagation, transmission and radiation. Chapters on the Finite Element and Finite Difference method, and a detailed appendix on the Smith chart are additional enhancements. MathCad code for many examples in the book and a comprehensive solutions set are available at www.cambridge.org/9780521830164.

FUNDAMENTALS OF ELECTROMAGNETICS WITH MATLAB

SciTech Publishing This second edition comes from your suggestions for a more lively format, self-learning aids for students, and the need for applications and projects without being distracted from EM Principles. Flexibility Choose the order, depth, and method of reinforcing EM Principles—the PDF files on CD provide Optional Topics, Applications, and Projects. Affordability Not only is this text priced below competing texts, but also the topics on CD (and downloadable to registered users) provide material sufficient for a second term of study with no additional book for students to buy. MATLAB This book takes full advantage of MATLAB's power to motivate and reinforce EM Principles. No other EM books is better integrated with MATLAB. The second edition is even richer and easier to incorporate into course use with the new, self-paced MATLAB tutorials on the CD and available to registered users.

STATISTICS AND PROBABILITY FOR ENGINEERING APPLICATIONS

Elsevier *Statistics and Probability for Engineering Applications* provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering

problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory

FUNDAMENTALS OF ENGINEERING ELECTROMAGNETICS

CRC Press *Electromagnetics* is too important in too many fields for knowledge to be gathered on the fly. A deep understanding gained through structured presentation of concepts and practical problem solving is the best way to approach this important subject. *Fundamentals of Engineering Electromagnetics* provides such an understanding, distilling the most important theoretical aspects and applying this knowledge to the formulation and solution of real engineering problems. Comprising chapters drawn from the critically acclaimed *Handbook of Engineering Electromagnetics*, this book supplies a focused treatment that is ideal for specialists in areas such as medicine, communications, and remote sensing who have a need to understand and apply electromagnetic principles, but who are unfamiliar with the field. Here is what the critics have to say about the original work "...accompanied with practical engineering applications and useful illustrations, as well as a good selection of references ... those chapters that are devoted to areas that I am less familiar with, but currently have a need to address, have certainly been valuable to me. This book will therefore provide a useful resource for many engineers working in applied electromagnetics, particularly those in the early stages of their careers." - Alastair R. Ruddle, *The IEE Online* "...a tour of practical electromagnetics written by industry experts ... provides an excellent tour of the practical side of electromagnetics ... a useful reference for a wide range of electromagnetics problems ... a very useful and well-written compendium..." -Alfy Riddle, *IEEE Microwave Magazine* *Fundamentals of Engineering Electromagnetics* lays the theoretical foundation for solving new and complex engineering problems involving electromagnetics.

FIELDS AND WAVES IN COMMUNICATION ELECTRONICS

Wiley This comprehensive revision begins with a review of static electric and magnetic fields, providing a wealth of results useful for static and time-dependent fields problems in which the size of the device is small compared with a wavelength. Some of the static results such as inductance of transmission lines calculations can be used for microwave frequencies. Familiarity with vector operations, including divergence and curl, are developed in context in the chapters on statics. Packed with useful derivations and applications.

FUNDAMENTALS OF OPTICAL FIBERS

Wiley-Interscience *Fundamentals of Optical Fibers* offers students a timely,

pedagogically consistent introduction to the fundamental principles of light propagation in fibers. In it, Professor John A. Buck reviews, in depth, fundamental waveguiding concepts, the influence of various fiber structures and materials on light transmission, nonlinear light propagation effects occurring in fibers, and various measurement techniques. Since the chief application of optical fibers is in communication systems, throughout the book the focus is on topics which pertain to that domain. In the first part of the text, the author lays the groundwork for later discussions with a detailed review of the relevant electromagnetic principles and how they apply to the analysis of wave propagation. He also introduces basic field equations and delineates the fundamental principles of dielectric waveguides. In the second part, he explores the limitations of fiber transmission, paying particular attention to the problems of loss and dispersion. He reviews fabrication procedures and alternative fiber designs as they relate to minimizing loss and dispersion. And he presents field analysis methods for single mode and multimode fibers having graded index profiles. In the last part, Professor Buck reviews the basics of nonlinear optics and discusses the origins of nonlinear effects and the conditions under which they appear in fibers. This section also features a discussion of fiber amplifiers, along with a review of the fundamentals of light amplification by stimulated emission. Offering a well-balanced presentation of the basics of light propagation in fibers, and including real-world examples and end-of-chapter problems, Fundamentals of Optical Fibers is an excellent text for senior- to graduate-level courses in electrical engineering or physics. It is accessible to anyone who has taken at least a one-semester course in electromagnetics at the undergraduate level. Offering a balanced presentation of the basics of light propagation in fibers, Fundamentals of Optical Fibers is an excellent introductory text for senior- to graduate-level courses in electrical engineering or physics. It was designed to be accessible to virtually anyone who has taken undergraduate courses in electromagnetics, and because it treats a number of key issues in fiber communications systems, it serves equally well as a supplement to fiber systems books used in most communications-oriented courses. Covers light propagation in optical fibers with an emphasis on issues pertaining to communications systems. Reviews, in depth, relevant waveguiding concepts and the influence of fiber structures and materials on light transmission Explores the limitations of fiber transmission techniques, with an emphasis on the problems of loss and dispersion and the fiber designs currently used to minimize them Describes field analysis methods for single mode and multimode fibers Explores the origins of nonlinear effects and the conditions under which they appear in fibers Includes real-world examples, and chapter-end problems

STATISTICS IN PSYCHOLOGY AND EDUCATION

PHI Learning Pvt. Ltd. This extensively revised and fully updated second edition is designed as a textbook for M.A. (Education), M.Ed., M.A. (Psychology and Sociology) and for research students pursuing courses in Statistics related to these subjects. It takes into account the present syllabi of various universities and institutes of education across the country. What's New to the Second Edition : Six new chapters added with emphasis on advanced statistical concepts and techniques such as the

following : - Biserial correlation, point biserial correlation, tetrachoric correlation, phi coefficient, partial and multiple correlation. - Transfer of raw scores into standard scores, T, C and Stanine scores. - Non-parametric tests like the McNemar test, Sign test, Wilcoxon test, Median test, U test, Runs test, and KS test. - Analysis of covariance. Some chapters modified and reshuffled to reflect the new emphasis. Entire text thoroughly checked and marked improvements made to bring the topics uptodate.

INTRODUCTION TO PSPICE MANUAL FOR ELECTRIC CIRCUITS

USING ORCAD RELEASE 9.2

The fourth edition of this work continues to provide a thorough perspective of the subject, communicated through a clear explanation of the concepts and techniques of electric circuits. This edition was developed with keen attention to the learning needs of students. It includes illustrations that have been redesigned for clarity, new problems and new worked examples. Margin notes in the text point out the option of integrating PSpice with the provided Introduction to PSpice; and an instructor's roadmap (for instructors only) serves to classify homework problems by approach. The author has also given greater attention to the importance of circuit memory in electrical engineering, and to the role of electronics in the electrical engineering curriculum.

BASIC ENGINEERING CIRCUIT ANALYSIS

DIGITAL DESIGN: PRINCIPLES AND PRACTICES, 4/E

Pearson Education India

PRINCIPLES OF FOUNDATION ENGINEERING

Cengage Learning Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

FUNDAMENTALS OF APPLIED ELECTROMAGNETICS

Prentice Hall CD-ROM contains: Demonstration exercises -- Complete solutions -- Problem statements.

ENGINEERING ELECTROMAGNETIC FIELDS AND WAVES

John Wiley & Sons

ELECTROMAGNETISM

THEORY AND APPLICATIONS

PHI Learning Pvt. Ltd. *The second edition of Electromagnetism: Theory and Applications has been updated to cover some additional aspects of theory and nearly all modern applications. The semi-historical approach is unchanged, but further historical comments have been introduced at various places in the book to give a better insight into the development of the subject as well as to make the study more interesting and palatable to the students. What is New to This Edition* Vector transformations in different coordinate systems have been included in the chapter on Vector Analysis. The treatment forms the basis of vector potentials for three-dimensional problems. Chapter 13 on Vector Potentials has been significantly expanded for a clear understanding of the properties of vector potentials, in order to also solve three-dimensional EM problems numerically. A section dealing with the derivation and interpretation of Hertz Vector has been included in Chapter 13. A practical problem on induction heating of flat metal plates has been added to the chapter on Magnetic Diffusion. The topics of wave guidance and radiation have been expanded with emphasis on practical aspects. Sections on analysis of cylindrical dielectric waveguide (e.g. of optical fibres) have been added to Chapters 18 and 22. New sections on basis and explanations of modal transmissions have been added. Characteristics and practical details of basic antenna structures and arrays have been treated in greater detail. Provides comprehensive treatment of FEM (Finite Element Method), covering both its variational basis and procedural details, to enable the readers to use this method without going into the heavy mathematics underlying the method. Describes FDM (Finite Difference Method) in more detail with its convergence requirement. Introduces modern numerical methods like FDTD (Finite Difference Time Domain) and method of moments (MOM). A new chapter on Modern Topics and Applications covers both high frequency and low frequency applications. Appendices contain in-depth analysis of self-inductance and non-conservative fields (Appendix 6), proof regarding the boundary conditions (Appendix 8), theory of bicylindrical coordinate system to provide the physical basis of the circuit approach to the cylindrical transmission line systems (Appendix 10), and properties of useful functions like Bessel and Legendre functions (Appendix 9). The book is designed to serve as a core text for students of electrical engineering. Besides, it will be useful to postgraduate physics students as well as research engineers and design and development engineers in industries.

FUNDAMENTALS OF ELECTROMAGNETICS WITH ENGINEERING APPLICATIONS

Wiley With the rapid growth of wireless technologies, more and more people are trying to gain a better understanding of electromagnetics. After all, electromagnetic fields have a direct impact on reception in all wireless applications. This text

explores electromagnetics, presenting practical applications for wireless systems, transmission lines, waveguides, antennas, electromagnetic interference, and microwave engineering. It is designed for use in a one- or two-semester electromagnetics sequence for electrical engineering students at the junior and senior level. The first book on the subject to tackle the impact of electromagnetics on wireless applications: Includes numerous worked-out example problems that provide you with hands-on experience in solving electromagnetic problems. Describes a number of practical applications that show how electromagnetic theory is put into practice. Offers a concise summary at the end of each chapter that reinforces the key points. Detailed MATLAB examples are integrated throughout the book to enhance the material.

ELECTRIC POWER SUBSTATIONS ENGINEERING

CRC Press Combining select chapters from Grigsby's standard-setting *The Electric Power Engineering Handbook* with several chapters not found in the original work, *Electric Power Substations Engineering* became widely popular for its comprehensive, tutorial-style treatment of the theory, design, analysis, operation, and protection of power substations. For its

ELECTROMAGNETIC ENGINEERING AND WAVES

"*Engineering Electromagnetics and Waves*" is designed for upper-division college and university engineering students, for those who wish to learn the subject through self-study, and for practicing engineers who need an up-to-date reference text. The student using this text is assumed to have completed typical lower-division courses in physics and mathematics as well as a first course on electrical engineering circuits." "This book provides engineering students with a solid grasp of electromagnetic fundamentals and electromagnetic waves by emphasizing physical understanding and practical applications. The topical organization of the text starts with an initial exposure to transmission lines and transients on high-speed distributed circuits, naturally bridging electrical circuits and electromagnetics. Teaching and Learning Experience This program will provide a better teaching and learning experience-for you and your students. It provides: Modern Chapter Organization Emphasis on Physical Understanding Detailed Examples, Selected Application Examples, and Abundant Illustrations Numerous End-of-chapter Problems, Emphasizing Selected Practical Applications Historical Notes on the Great Scientific Pioneers Emphasis on Clarity without Sacrificing Rigor and Completeness Hundreds of Footnotes Providing Physical Insight, Leads for Further Reading, and Discussion of Subtle and Interesting Concepts and Applications"

COMPUTATIONAL ANALYSIS AND DESIGN OF BRIDGE STRUCTURES

CRC Press Gain Confidence in Modeling Techniques Used for Complicated Bridge Structures Bridge structures vary considerably in form, size, complexity, and importance. The methods for their computational analysis and design range from approximate to refined analyses, and rapidly improving computer technology has made the more refined and complex methods of ana

ANALYTICS FOR THE INTERNET OF THINGS (IOT)

Packt Publishing Ltd Break through the hype and learn how to extract actionable intelligence from the flood of IoT data About This Book Make better business decisions and acquire greater control of your IoT infrastructure Learn techniques to solve unique problems associated with IoT and examine and analyze data from your IoT devices Uncover the business potential generated by data from IoT devices and bring down business costs Who This Book Is For This book targets developers, IoT professionals, and those in the field of data science who are trying to solve business problems through IoT devices and would like to analyze IoT data. IoT enthusiasts, managers, and entrepreneurs who would like to make the most of IoT will find this equally useful. A prior knowledge of IoT would be helpful but is not necessary. Some prior programming experience would be useful What You Will Learn Overcome the challenges IoT data brings to analytics Understand the variety of transmission protocols for IoT along with their strengths and weaknesses Learn how data flows from the IoT device to the final data set Develop techniques to wring value from IoT data Apply geospatial analytics to IoT data Use machine learning as a predictive method on IoT data Implement best strategies to get the most from IoT analytics Master the economics of IoT analytics in order to optimize business value In Detail We start with the perplexing task of extracting value from huge amounts of barely intelligible data. The data takes a convoluted route just to be on the servers for analysis, but insights can emerge through visualization and statistical modeling techniques. You will learn to extract value from IoT big data using multiple analytic techniques. Next we review how IoT devices generate data and how the information travels over networks. You'll get to know strategies to collect and store the data to optimize the potential for analytics, and strategies to handle data quality concerns. Cloud resources are a great match for IoT analytics, so Amazon Web Services, Microsoft Azure, and PTC ThingWorx are reviewed in detail next. Geospatial analytics is then introduced as a way to leverage location information. Combining IoT data with environmental data is also discussed as a way to enhance predictive capability. We'll also review the economics of IoT analytics and you'll discover ways to optimize business value. By the end of the book, you'll know how to handle scale for both data storage and analytics, how Apache Spark can be leveraged to handle scalability, and how R and Python can be used for analytic modeling. Style and approach This book follows a step-by-step, practical approach to combine the power of analytics and IoT and help you get results quickly

MICROWAVE DEVICES AND CIRCUITS

Pearson Education India

GEOTECHNICAL ENGINEERING

PRINCIPLES AND PRACTICES OF SOIL MECHANICS AND FOUNDATION ENGINEERING

CRC Press A must have reference for any engineer involved with foundations, piers, and retaining walls, this remarkably comprehensive volume illustrates soil

characteristic concepts with examples that detail a wealth of practical considerations, It covers the latest developments in the design of drilled pier foundations and mechanically stabilized earth retaining wall and explores a pioneering approach for predicting the nonlinear behavior of laterally loaded long vertical and batter piles. As complete and authoritative as any volume on the subject, it discusses soil formation, index properties, and classification; soil permeability, seepage, and the effect of water on stress conditions; stresses due to surface loads; soil compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be taking off the shelf long after school lets out. Just the quick reference it affords to a huge range of tests and the appendices filled with essential data, makes it an essential addition to an civil engineering library.

HANDBOOK OF ELECTRICAL INSTALLATION PRACTICE

John Wiley & Sons Handbook of Electrical Installation Practice covers all key aspects of industrial, commercial and domestic installations and draws on the expertise of a wide range of industrial experts. Chapters are devoted to topics such as wiring cables, mains and submains cables and distribution in buildings, as well as power supplies, transformers, switchgear, and electricity on construction sites. Standards and codes of practice, as well as safety, are also included. Since the Third Edition was published, there have been many developments in technology and standards. The revolution in electronic microtechnology has made it possible to introduce more complex technologies in protective equipment and control systems, and these have been addressed in the new edition. Developments in lighting design continue, and extra-low voltage luminaries for display and feature illumination are now dealt with, as is the important subject of security lighting. All chapters have been amended to take account of revisions to British and other standards, following the trend to harmonised European and international standards, and they also take account of the latest edition of the Wiring Regulations. This new edition will provide an invaluable reference for consulting engineers, electrical contractors and factory plant engineers.

CALCULUS AND ANALYTIC GEOMETRY

SOLUTIONS MANUAL (CHAPTERS 10-19)

Prentice Hall

POWER ELECTRONICS HANDBOOK

DEVICES, CIRCUITS AND APPLICATIONS

Elsevier Power electronics, which is a rapidly growing area in terms of research and applications, uses modern electronics technology to convert electric power from one form to another, such as ac-dc, dc-dc, dc-ac, and ac-ac with a variable output magnitude and frequency. Power electronics has many applications in our every day life such as air-conditioners, electric cars, sub-way trains, motor drives, renewable

energy sources and power supplies for computers. This book covers all aspects of switching devices, converter circuit topologies, control techniques, analytical methods and some examples of their applications. * 25% new content * Reorganized and revised into 8 sections comprising 43 chapters * Coverage of numerous applications, including uninterruptable power supplies and automotive electrical systems * New content in power generation and distribution, including solar power, fuel cells, wind turbines, and flexible transmission

FUNDAMENTALS OF COMPLEX ANALYSIS

WITH APPLICATIONS TO ENGINEERING AND SCIENCE

Pearson Higher Ed This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This is the best seller in this market. It provides a comprehensive introduction to complex variable theory and its applications to current engineering problems. It is designed to make the fundamentals of the subject more easily accessible to students who have little inclination to wade through the rigors of the axiomatic approach. Modeled after standard calculus books—both in level of exposition and layout—it incorporates physical applications throughout the presentation, so that the mathematical methodology appears less sterile to engineering students.

RF CIRCUIT DESIGN

THEORY AND APPLICATIONS

For upper-level Electrical Engineering introductory courses in RF Circuit Design and analog integrated circuits. This practical and comprehensive book introduces RF circuit design fundamentals with an emphasis on design methodologies. * Provides MATLAB routines to carry out simple transmission line computations and allow the graphical display of the resulting impedance behaviors as part of the Smith Chart. * Allows students to implement these software tools on their own PC. All m-files will be included on a bound in CD-ROM. * Presents RF Amplifier Designs, including small and large signal designs, narrow versus broad band, low noise, and many others. * Provides students with useful broad-based knowledge of common amplifier designs used in the industry. * Discusses Matching Networks, such as T and P matching networks and single and double stub matching. It also includes Discrete and Microstrip Line matching techniques with computer simulations... * Presents Scattering parameters such as realistic listings of S-parameters for transistors and transmission line. * Highlights practical use of S-parameters in circuit design and performance evaluation. resistor, capacitor, and inductor networks. It also includes simulations in MATLAB to provide graphical display of circuit behavior and performance analysis. * Introduces the Smith Chart as a design tool to monitor electric behavior of circuits. * Introduces the generic forms of Oscillators and Mixers, including negative resistance condition, fixed-frequency, and YIG-tuned designs. * Explains the most common oscillator designs used in many RF systems. * Provides an overview of common filter types, including low, high, bandpass, Butterworth, and

*Chebyshev filters. * Provides design tools to enable students to develop a host of practically realizable filters. * Discusses the high-frequency behavior of common circuit components, including the behavior of resistors, capacitors, and inductors. * Helps students understand the difference of low versus high frequency responses. * Introduces the theory of distributed parameters through a discussion on Transmission Lines. This includes line parameters, sources and load terminations, and voltage and current waves. circuits. * Analyzes active/passive RF circuits through various network description models, especially the two-port network. This discussion also covers impedance, admittance, ABCD, h-parameter networks, and interrelations. * Includes a number of important pedagogical features--Intersperses examples throughout each chapter, and includes self-written MATLAB routines and circuit simulations by a commercial RF software package. * Assists students by clarifying and explaining the theoretical developments.*

ELEMENTS OF ELECTROMAGNETICS

SOLUTIONS MANUAL

ELECTROMAGNETICS

ELEMENTS OF ENGINEERING ELECTROMAGNETICS

This text examines applications and covers statics with an emphasis on the dynamics of engineering electromagnetics. This edition features a new chapter on electromagnetic principles for photonics, and sections on cylindrical metallic waveguides and losses in waveguides and resonators.

ENGINEERING ECONOMY

McGraw-Hill College *This student-friendly text on the current economic issues particular to engineering covers the topics needed to analyze engineering alternatives. Students use both hand-worked and spreadsheet solutions of examples, problems and case studies. In this edition the options have been increased with an expanded spreadsheet analysis component, twice the number of case studies, and virtually all new end-of-chapter problems. The chapters on factor derivation and usage, cost estimation, replacement studies, and after-tax evaluation have been heavily revised. New material is included on public sector projects and cost estimation. A reordering of chapters puts the fundamental topics up front in the text. Many chapters include a special set of problems that prepare the students for the Fundamentals of Engineering (FE) exam. This text provides students and practicing professionals with a solid preparation in the financial understanding of engineering problems and projects, as well as the techniques needed for evaluating and making sound economic decisions. Distinguishing characteristics include learning objectives for each chapter, an easy-to-read writing style, many solved examples, integrated spreadsheets, and case studies throughout the text. Graphical cross-referencing between topics and quick-solve spreadsheet solutions are indicated in the margin throughout the text. While the chapters are progressive, over three-quarters can stand alone, allowing instructors flexibility for meeting course needs. A complete*

online learning center (OLC) offers supplemental practice problems, spreadsheet exercises, and review questions for the the Fundamentals of Engineering (FE) exam.

PULSE GENERATORS

OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT, NATIONAL DEFENSE RESEARCH COMMITTEE

FUNDAMENTALS OF ELECTRIC CIRCUITS

For use in an introductory circuit analysis or circuit theory course, this text presents circuit analysis in a clear manner, with many practical applications. It demonstrates the principles, carefully explaining each step.

EXPERIMENTAL METHODS FOR ENGINEERS

This market leader offers the broadest range of experimental measurement techniques available for mechanical and general engineering applications. Offering clear descriptions of the general behavior of different measurement techniques, such as pressure, flow, and temperature, the text emphasizes the use of uncertainty analysis and statistical data analysis in estimating the accuracy of measurements.

FIELD AND WAVE ELECTROMAGNETICS

Pearson Education India

ENGINEERING CIRCUIT ANALYSIS

Wiley Global Education Circuit analysis is the fundamental gateway course for computer and electrical engineering majors. Engineering Circuit Analysis has long been regarded as the most dependable textbook. Irwin and Nelms has long been known for providing the best supported learning for students otherwise intimidated by the subject matter. In this new 11th edition, Irwin and Nelms continue to develop the most complete set of pedagogical tools available and thus provide the highest level of support for students entering into this complex subject. Irwin and Nelms' trademark student-centered learning design focuses on helping students complete the connection between theory and practice. Key concepts are explained clearly and illustrated by detailed worked examples. These are then followed by Learning Assessments, which allow students to work similar problems and check their results against the answers provided. The WileyPLUS course contains tutorial videos that show solutions to the Learning Assessments in detail, and also includes a robust set of algorithmic problems at a wide range of difficulty levels. WileyPLUS sold separately from text.