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## Fundamentals of Electrical Engineering

**Oxford Series in Electrical and Computer Engineering** *Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.*

## Elementary Linear Circuit Analysis

**Oxford University Press on Demand** *A "student-friendly" introduction to the basics of electric circuit analysis, this sophomore-level text covers traditional material, as well as such modern topics as op-amps and the use of digital computers for circuit analysis. The presentation is very lucid and thorough with clearer and more complete explanations of Kirchoff's laws, and nodal analysis than in*

comparable texts. Bobrow also places greater emphasis on signals and waveforms. This text features evaluation of initial conditions, phasor diagrams, and coverage of SPICE.

## Fundamentals of Electrical Engineering

**McGraw-Hill Higher Education** Rizzoni's *Fundamentals of Electrical Engineering* provides a solid overview of the electrical engineering discipline that is especially geared toward the many non-electrical engineering students who take this course. The book was developed to fit the growing trend of the Intro to EE course morphing into a briefer, less comprehensive course. The hallmark feature of this text is its liberal use of practical applications to illustrate important principles. The applications come from every field of engineering and feature exciting technologies. The appeal to non-engineering students are the special features such as Focus on Measurement sections, Focus on Methodology sections, and Make the Connections sidebars.

## The Fundamentals of Electrical Engineering for Mechatronics

**Walter de Gruyter GmbH & Co KG** The technical systems we develop today are complicated. The challenges vehicle manufacturers are facing involve a combination of the fields of electronics, mechanics, control engineering, telecommunications, computer engineering, and software programming in order to realise the required functionality. This multi-disciplinary field of engineering is called mechatronics, and one of the key disciplines in this field is electronic engineering. Consequently, knowledge of the basic laws and principles of electronic engineering is mandatory for anyone who wants to work in the field of mechatronics. This book therefore explains the fundamentals of electrical engineering with an emphasis on mechatronic systems. Starting with basic laws, the main focus is on circuit analysis, including DC and AC circuits, transient effects, filters and oscillating circuits. Basic circuit elements are introduced as well as more complex semiconductor devices like operational amplifiers, bipolar junction transistors and MOSFET field-effect transistors. Finally, a short introduction to the important field of circuit simulation completes the book. The latest vehicles are classic examples of mechatronic systems. Automotive applications are therefore used throughout the book as examples to demonstrate the application of the discussed topics in a mechatronic environment.

# Engineering Circuit Analysis

## Circuit Analysis Demystified

**McGraw Hill Professional** Here's the sure cure for CIRCUIT PARALYSIS! Need to learn circuit analysis but experiencing some resistance in your brain waves? No stress! *Circuit Analysis Demystified* will give you the jolt you need to understand this complex subject--without getting your circuits crossed. In the first part of the book, you'll learn the fundamentals such as voltage and current theorems, Thevenin and Norton's theorems, op amp circuits, capacitance and inductance, and phasor analysis of circuits. Then you'll move on to more advanced topics including Laplace transforms, three-phase circuits, filters, Bode plots, and characterization of circuit stability. Featuring end-of-chapter quizzes and a final exam, this book will have you in a steady state when it comes to circuit analysis in no time at all. This fast and easy guide offers: Numerous figures to illustrate key concepts Sample equations with worked solutions Coverage of Kirchhoff's laws, the superposition theorem, Millman's theorem, and delta-wye transformations Quizzes at the end of each chapter to reinforce learning A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for an advanced student, *Circuit Analysis Demystified* will transform you into a master of this essential engineering subject.

## Compiler Construction

**Springer Science & Business Media** Compilers and operating systems constitute the basic interfaces between a programmer and the machine for which he is developing software. In this book we are concerned with the construction of the former. Our intent is to provide the reader with a firm theoretical basis for compiler construction and sound engineering principles for selecting alternate methods, implementing them, and integrating them into a reliable, economically viable product. The emphasis is upon a clean decomposition employing modules that can be re-used for many compilers, separation of concerns to facilitate team programming, and flexibility to accommodate hardware and system constraints. A reader should be able to understand the questions he must ask when designing a compiler for language X on machine Y, what tradeoffs are possible, and what performance might be obtained. He should not feel that any part of the design rests on whim; each decision must be based upon specific, identifiable characteristics of the source and target languages or upon design goals of the compiler. The vast majority of computer professionals will never write a

compiler. Nevertheless, study of compiler technology provides important benefits for almost everyone in the field . • It focuses attention on the basic relationships between languages and machines. Understanding of these relationships eases the inevitable transitions to new hardware and programming languages and improves a person's ability to make appropriate tradeoffs in design and implementation .

## Elements of Power Electronics

*Building on the tradition of its classic first edition, the long-awaited second edition of Elements of Power Electronics provides comprehensive coverage of the subject at a level suitable for undergraduate engineering students, students in advanced degree programs, and novices in the field. It establishes a fundamental engineering basis for power electronics analysis, design, and implementation, offering broad and in-depth coverage of basic material. Streamlined throughout to reflect new innovations in technology, the second edition also features updates on renewable and alternative energy. Elements of Power Electronics features a unifying framework that includes the physical implications of circuit laws, switching circuit analysis, and the basis for converter operation and control. It discusses dc-dc, ac-dc, dc-ac, and ac-ac conversion tasks and principles of resonant converters and discontinuous converters. The text also addresses magnetic device design, thermal management and drivers for power semiconductors, control system aspects of converters, and both small-signal and geometric controls. Models for real devices and components-including capacitors, inductors, wire connections, and power semiconductors-are developed in depth, while newly expanded examples show students how to use tools like Mathcad, Matlab, and Mathematica to aid in the analysis and design of conversion circuits. Features: \*More than 160 examples and 350 chapter problems support the presented concepts\* An extensive Companion Website includes additional problems, laboratory materials, selected solutions for students, computer-based examples, and analysis tools for Mathcad, Matlab, and Mathematica*

## ELEMENTS OF MANUFACTURING PROCESSES

**PHI Learning Pvt. Ltd.** *This comprehensive introduction to basic manufacturing processes is ideal for both degree and diploma courses in engineering. With several pedagogical features, the text makes the topics understandable and appealing for students. The book first introduces the concepts of engineering materials and their properties, measurement and quality in manufacturing and allied activities before dwelling upon the details of different manufacturing processes such as machining, casting, metal forming, powder metallurgy and joining. To keep pace with the latest advancements in technology, use of non-conventional resources, applications of*

computers, and use of robots in manufacturing are also discussed in considerable detail. The text also provides a thorough treatment of topics on economy and management of production.

# Electrical Engineering Fundamentals

**Walter de Gruyter GmbH & Co KG** *Fundamentals of Electrical Engineering* is an excellent introduction into the areas of electricity, electronic devices and electrochemistry. The book covers aspects of electrical science including Ohm and Kirchoff's laws, P-N junctions, semiconductors, circuit diagrams, magnetic fields, electrochemistry, and devices such as DC motors. This text is useful for students of electrical, chemical, materials, and mechanical engineering.

## Vibrations and Waves

**CRC Press** *The M.I.T. Introductory Physics Series* is the result of a program of careful study, planning, and development that began in 1960. The Education Research Center at the Massachusetts Institute of Technology (formerly the Science Teaching Center) was established to study the process of instruction, aids thereto, and the learning process itself, with special reference to science teaching at the university level. Generous support from a number of foundations provided the means for assembling and maintaining an experienced staff to co-operate with members of the Institute's Physics Department in the examination, improvement, and development of physics curriculum materials for students planning careers in the sciences. After careful analysis of objectives and the problems involved, preliminary versions of textbooks were prepared, tested through classroom use at M.I.T. and other institutions, re-evaluated, rewritten, and tried again. Only then were the final manuscripts undertaken.

## Electrical Engineering Fundamentals

**CRC Press** Many, in their quest for knowledge in engineering, find typical textbooks intimidating. Perhaps due to an extensive amount of physics theory, an overwhelming barrage of math, and not enough practical application of the engineering principles, laws, and equations. Therein lies the difference between this text and those voluminous and daunting conventional university engineering textbooks. This text leads the reader into more complex and abstract content after explaining the electrical engineering concepts and

*principles in an easy to understand fashion, supported by analogies borrowed from day-to-day examples and other engineering disciplines. Many complex electrical engineering concepts, for example, power factor, are examined from multiple perspectives, aided by diagrams, illustrations, and examples that the reader can easily relate to. Throughout this book, the reader will gain a clear and strong grasp of electrical engineering fundamentals, and a better understanding of electrical engineering terms, concepts, principles, laws, analytical techniques, solution strategies, and computational techniques. The reader will also develop the ability to communicate with professional electrical engineers, controls engineers, and electricians on their "wavelength" with greater confidence. Study of this book can help develop skills and preparation necessary for succeeding in the electrical engineering portion of various certification and licensure exams, including Fundamentals of Engineering (FE), Professional Engineering (PE), Certified Energy Manager (CEM), and many other trade certification tests. This text can serve as a compact and simplified electrical engineering desk reference. This book provides a brief introduction to the NEC®, the Arc-Flash Code, and a better understanding of electrical energy and associated cost. If you need to gain a better understanding of myriad battery alternatives available in the market, their strengths and weaknesses, and how batteries compare with capacitors as energy storage devices, this book can be a starting point. This book is ideal for engineers, engineering students, facility managers, engineering managers, program/project managers, and other executives who do not possess a current working knowledge of electrical engineering. Because of the simple explanations, analogies, and practical examples employed by the author, this book serves as an excellent learning tool for non-engineers, technical writers, attorneys, electrical sales professionals, energy professionals, electrical equipment procurement agents, construction managers, facility managers, and maintenance managers.*

## Artificial Intelligence

**Cambridge University Press** *Artificial Intelligence* presents a practical guide to AI, including agents, machine learning and problem-solving simple and complex domains.

## Funding a Revolution

# Government Support for Computing Research

**National Academies Press** *The past 50 years have witnessed a revolution in computing and related communications technologies. The contributions of industry and university researchers to this revolution are manifest; less widely recognized is the major role the federal government played in launching the computing revolution and sustaining its momentum. Funding a Revolution examines the history of computing since World War II to elucidate the federal government's role in funding computing research, supporting the education of computer scientists and engineers, and equipping university research labs. It reviews the economic rationale for government support of research, characterizes federal support for computing research, and summarizes key historical advances in which government-sponsored research played an important role. Funding a Revolution contains a series of case studies in relational databases, the Internet, theoretical computer science, artificial intelligence, and virtual reality that demonstrate the complex interactions among government, universities, and industry that have driven the field. It offers a series of lessons that identify factors contributing to the success of the nation's computing enterprise and the government's role within it.*

# Basic Electrical and Electronics Engineering:

**Pearson Education India** *Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily*

# ENGINEERING GRAPHICS WITH AUTOCAD

**PHI Learning Pvt. Ltd.** *Designed as a text for the undergraduate students of all branches of engineering, this compendium gives an opportunity to learn and apply the popular drafting software AutoCAD in designing projects. The textbook is organized in three comprehensive parts. Part I (AutoCAD) deals with the basic commands of AutoCAD, a popular drafting software used by engineers and architects. Part II (Projection Techniques) contains various projection techniques used in engineering for technical drawings. These techniques have been explained with a number of line diagrams to make them simple to the students. Part III (Descriptive Geometry), mainly deals with 3-D objects that require imagination. The accompanying CD contains the animations using creative multimedia and PowerPoint presentations for all chapters. In a nutshell, this textbook will help students maintain their cutting edge in the professional*

job market. **KEY FEATURES :** Explains fundamentals of imagination skill in generic and basic forms to crystallize concepts. Includes chapters on aspects of technical drawing and AutoCAD as a tool. Treats problems in the third angle as well as first angle methods of projection in line with the revised code of Indian Standard Code of Practice for General Drawing.

# Composing Electronic Music

## A New Aesthetic

**OUP Us** *Electronic music evokes new sensations, feelings, and thoughts in both composers and listeners. Opening the door to an unlimited universe of sound, it engages spatialization as an integral aspect of composition and focuses on sound transformation as a core structural strategy. In this new domain, pitch occurs as a flowing and ephemeral substance that can be bent, modulated, or dissolved into noise. Similarly, time occurs not merely as a fixed duration subdivided by ratios, but as a plastic medium that can be generated, modulated, reversed, warped, scrambled, and granulated. Envelope and waveform undulations on all time scales interweave to generate form. The power of algorithmic methods amplify the capabilities of music technology. Taken together, these constitute game-changing possibilities. This convergence of technical and aesthetic trends prompts the need for a new text focused on the opportunities of a sound oriented, multiscale approach to composition of electronic music. Sound oriented means a practice that takes place in the presence of sound. Multiscale means an approach that takes into account the perceptual and physical reality of multiple, interacting time scales-each of which can be composed. After more than a century of research and development, now is an appropriate moment to step back and reevaluate all that has changed under the ground of artistic practice. Composing Electronic Music outlines a new theory of composition based on the toolkit of electronic music techniques. The theory consists of a framework of concepts and a vocabulary of terms describing musical materials, their transformation, and their organization. Central to this discourse is the notion of narrative structure in composition-how sounds are born, interact, transform, and die. It presents a guidebook: a tour of facts, history, commentary, opinions, and pointers to interesting ideas and new possibilities to consider and explore.*



# Fundamentals of Electrical Engineering

**Holt Rinehart & Winston** For the first course in electrical engineering, this text is more than just a survey of the basics of electrical engineering. Even at this introductory level, Bobrow covers most of the material in sufficient detail for students to gain a good understanding of the fundamental principles on which modern electrical engineering is based. The text is partitioned into four parts: circuits, electronics, digital systems, and electromechanics. The circuits portion includes the traditional circuits topics, such as Ohm's law, Kirchhoff's laws, resistive analysis techniques, various circuit theorems and principles, time-domain and frequency-domain analysis procedures, power, three-phase circuits, resonance, frequency response, and elementary system concepts. The electronics portion deals with both theory and applications of the major semiconductor devices: diodes and transistors in both discrete and integrated-circuit (IC) form. In the digital systems portion, basic digital logic elements and logic design in both discrete and IC forms are covered. Sequential, as well as combinational logic, is covered. The electromechanics portion covers topics such as magnetic circuits, magnetic induction, and transformers on an elementary level. Each chapter ends with a problem set, with selected answers available at the back of the book

## 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.

## Basic Electrical Engineering

**Pearson Education India** Attuned to the needs of undergraduate students of engineering in their first year, Basic Electrical Engineering enables them to build a strong foundation in the subject. A large number of real-world examples illustrate the applications of complex theories. The book comprehensively covers all the areas taught in a one-semester course and serves as an ideal study material on the subject.

# Elementary Linear Algebra

With Supplemental Applications. International student version

## Electrical Engineering Fundamentals II

### Purdue University Lectures from ECE 20002

*As the name implies, this course is designed to provide a "Fundamental" approach to Electrical Engineering following the Fundamentals I course. We begin our journey with some basic circuit elements and develop a mathematically motivated approach to linear circuit analysis using Ordinary Differential Equations (ODEs) to discover Convolution, Laplace Transforms, Transfer Functions, and Frequency Filtering. The later lectures will cover variable frequency behavior. The series ends with how circuits behave and are modeled at high frequencies. Our goal with this text is two fold: 1. To provide a more specific, lecture-style approach for formal course documentation. Although large encyclopedic texts are useful as references, one will not be required for this course. 2. To dramatically reduce the cost for students and increase the flexibility of future editions by unconventionally self-publishing. The textbook industry has become too expensive for students to afford new books year after year and we feel that students should not have to bear the financial burden in addition to continually rising tuition costs. The low cost will hopefully encourage students to keep this packet as a reference as they professionally progress (rather than sell it back for cash to buy next semester's books!) Funds collected from sales directly help support further development of this packet and the course for future generations. We appreciate your help!*

# Semantic Information Processing

Mit Press

## Fundamentals of Electric Circuits

**McGraw-Hill Education** *"Alexander and Sadiku's sixth edition of Fundamentals of Electric Circuits continues in the spirit of its successful previous editions, with the objective of presenting circuit analysis in a manner that is clearer, more interesting, and easier to understand than other, more traditional texts. Students are introduced to the sound, six-step problem solving methodology in chapter one, and are consistently made to apply and practice these steps in practice problems and homework problems throughout the text."--Publisher's website.*

## Applied Circuit Analysis

**McGraw-Hill Higher Education** *This title is intended to present circuit analysis to engineering technology students in a manner that is clearer, more interesting and easier to understand than other texts. The book may also be used for a one-semester course by a proper selection of chapters and sections by the instructor.*

## McGraw-Hill Concise Encyclopedia of Engineering

**McGraw-Hill Concise Encycloped** *Hundreds of well-illustrated articles explore the most important fields of science. Based on content from the McGraw-Hill Concise Encyclopedia of Science & Technooogy, Fifth Edition, the most widely used and respected science reference of its kind in print, each of these subject-specific quick-reference guides features:*

- \* Detailed, well-illustrated explanations, not just definitions*
- \* Hundreds of concise yet authoritative articles in each volume*
- \* An easy-to-understand presentation, accessible and interesting to non-specialists*
- \* A portable, convenient format*
- \* Bibliographies, appendices, and other information supplement the articles*

# An Introduction to Mechanics

**Cambridge University Press** *A classic textbook on the principles of Newtonian mechanics for undergraduate students, accompanied by numerous worked examples and problems.*

# Circuits, Devices and Systems

# A First Course in Electrical Engineering

**John Wiley & Sons** *This book is also available through the Introductory Engineering Custom Publishing System. If you are interested in creating a course-pack that includes chapters from this book, you can get further information by calling 212-850-6272 or sending email inquiries to [engineerjwiley.com](mailto:engineerjwiley.com). The authors offer a set of objectives at the beginning of each chapter plus a clear, concise description of abstract concepts. Focusing on preparing students to solve practical problems, it includes numerous colorful illustrative examples. Along with updated material on MOSFETS, the CRO for use in lab work, a thorough treatment of digital electronics and rapidly developing areas of electronics, it contains an expansive glossary of new terms and ideas.*

# Robot Manipulator Control

# Theory and Practice

**CRC Press** *Robot Manipulator Control offers a complete survey of control systems for serial-link robot arms and acknowledges how robotic device performance hinges upon a well-developed control system. Containing over 750 essential equations, this thoroughly up-to-date Second Edition, the book explicates theoretical and mathematical requisites for controls design and summarizes current techniques in computer simulation and implementation of controllers. It also addresses procedures and issues in computed-torque, robust, adaptive, neural network, and force control. New chapters relay practical information on commercial robot manipulators and devices and cutting-edge methods in neural network control.*

# A First Lab in Circuits and Electronics

**Oxford University Press, USA** *Written by an award-winning educator and researcher, the sixteen experiments in this book have been extensively class-tested and fine-tuned. This lab manual, like no other, provides an exciting, active exploration of concepts and measurements and encourages students to tinker, experiment, and become creative on their own. This benefits their further study and subsequent professional work. The manual includes self-contained background for all electronics experiments, so that the lab can be run concurrently with any circuits or electronics course, at any level. It uses circuits in real applications which students can relate to, in order to motivate them and convince them that what they learn is for real. As a result, the material is not only made interesting, but helps motivate further study in circuits, electronics, communications and semiconductor devices. EXTENSIVE INSTRUCTOR RESOURCES: \* Putting the Lab Together is an extensive resource for instructors who are considering starting a lab based on this book. Includes an overview of a typical lab station, suggestions for choosing measurement equipment, equipment list with relevant information, and detailed information on parts required. This resource is openly available. \* Instructor's Manual includes hints for choosing lab TAs, hints on how to run the lab experiments, guidelines for shortening or combining experiments, answers to experiment questions, and suggestions for projects and exams. This manual is available to instructors who adopt the book.*

# Numerical Techniques in Electromagnetics, Second Edition

**CRC Press** *As the availability of powerful computer resources has grown over the last three decades, the art of computation of electromagnetic (EM) problems has also grown - exponentially. Despite this dramatic growth, however, the EM community lacked a comprehensive text on the computational techniques used to solve EM problems. The first edition of Numerical Techniques in Electromagnetics filled that gap and became the reference of choice for thousands of engineers, researchers, and students. The Second Edition of this bestselling text reflects the continuing increase in awareness and use of numerical techniques and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite difference time domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. The author also added a chapter on the method of lines. Numerical Techniques in Electromagnetics continues to teach readers how to pose, numerically analyze, and solve EM problems, give them the ability to expand their problem-*

*solving skills using a variety of methods, and prepare them for research in electromagnetism. Now the Second Edition goes even further toward providing a comprehensive resource that addresses all of the most useful computation methods for EM problems.*

## Basic Electrical Engineering

*This third edition of Basic Electrical Engineering provides a lucid exposition of the principles of electrical engineering. The book provides an exhaustive coverage of topics such as network theory and analysis, magnetic circuits and energy conversion, ac and dc machines, basic analogue instruments, and power systems. The book also gives an introduction to illumination concepts.*

## Fundamentals of Electronic Engineering

**Cengage Learning** *Fundamentals of Electronic Engineering* fulfills the requirements of a textbook on basic electronic engineering, a core course for undergraduate engineering students of all branches. The book deals with fundamental concepts and principles of the subject. Concepts and theories are properly explained and illustrated with examples in this book. Three complete chapters deal with the digital systems including microprocessors, microcomputers, minicomputers, and microcontrollers. The book includes a chapter on analogue, digital, and optical communication systems.

## Electrical Circuits in Biomedical Engineering

### Problems with Solutions

**Springer** *This book presents a comprehensive and in-depth analysis of electrical circuit theory in biomedical engineering, ideally suited as textbook for a graduate course. It contains methods and theory, but the topical focus is placed on practical applications of circuit theory, including problems, solutions and case studies. The target audience comprises graduate students and researchers and experts in electrical engineering who intend to embark on biomedical applications.*

# Discrete Mathematics: Applied Algebra for Computer and Information Science

**W.B. Saunders Company**

## Modern Analog Filter Analysis and Design

### A Practical Approach

**John Wiley & Sons** *Starting from the fundamentals, the present book describes methods of designing analog electronic filters and illustrates these methods by providing numerical and circuit simulation programs. The subject matters comprise many concepts and techniques that are not available in other text books on the market. To name a few - principle of transposition and its application in directly realizing current mode filters from well known voltage mode filters; an insight into the technological aspect of integrated circuit components used to implement an integrated circuit filter; a careful blending of basic theory, numerical verification (using MATLAB) and illustration of the actual circuit behaviour using circuit simulation program (SPICE); illustration of few design cases using CMOS and BiCMOS technological processes.*

## Fundamentals of Electrical Drives

**CRC Press** *Encouraged by the response to the first edition and to keep pace with recent developments, Fundamentals of Electrical Drives, Second Edition incorporates greater details on semi-conductor controlled drives, includes coverage of permanent magnet AC motor drives and switched reluctance motor drives, and highlights new trends in drive technology. Contents were chosen to satisfy the changing needs of the industry and provide the appropriate coverage of modern and conventional drives. With the large number of examples, problems, and solutions provided, Fundamentals of Electrical Drives, Second Edition will continue to be a useful reference for practicing engineers and for those preparing for Engineering Service Examinations.*

# Introduction to Electrical Engineering

## Microelectronic Circuits

**Oxford University Press, USA** *Microelectronic Circuits* by Sedra and Smith has served generations of electrical and computer engineering students as the best and most widely-used text for this required course. Respected equally as a textbook and reference, "Sedra/Smith" combines a thorough presentation of fundamentals with an introduction to present-day IC technology. It remains the best text for helping students progress from circuit analysis to circuit design, developing design skills and insights that are essential to successful practice in the field. Significantly revised with the input of two new coauthors, slimmed down, and updated with the latest innovations, *Microelectronic Circuits, Eighth Edition*, remains the gold standard in providing the most comprehensive, flexible, accurate, and design-oriented treatment of electronic circuits available today.

## Circuit Analysis II

## With Matlab Computing and Simulink/SimPowerSystems Modeling

**Orchard Publications** *This text is written for use in a second course in circuit analysis. It encompasses a spectrum of subjects ranging from the most abstract to the most practical, and the material can be covered in one semester or two quarters. The reader of this book should have the traditional undergraduate knowledge of an introductory circuit analysis material such as Circuit Analysis I with MATLAB Computing and Simulink/ SimPowerSystems Modeling, ISBN 978-1-934404-17-1. Another prerequisite would be a basic knowledge of differential equations, and in most cases, engineering students at this level have taken all required mathematics courses. Appendix H serves as a review of differential equations with emphasis on engineering related topics and it is recommended for readers who may need a review of this subject.*