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KEY=PROBLEMS - SLADE NOVAK

PROBLEMS IN ELECTRONICS WITH SOLUTIONS

Springer Science & Business Media *Many changes have been made in this edition, first to the nomenclature so that the book is in agreement with the International System of Units (S. I.) and secondly to the circuit diagrams so that they conform to B. S. S. 3939. The book has been enlarged and now has 546 problems. Much more emphasis has been given to semiconductor devices and transistor circuits, additional topics and references for further reading have been introduced, some of the original problems and solutions have been taken out and several minor modifications and corrections have been made. It could be argued that thermionic-valve circuits should not have been mentioned since valves are no longer considered important by most electronic designers except possibly for very high power or voltage applications. Some of the original problems on valves and valve circuits have been retained, however, for completeness because the material is still present in many syllabuses and despite the advent and proliferation of solid-state devices in recent years the good old-fashioned valve looks like being in existence for a long time. There are still some topics readers may expect to find included which have had to be omitted; others have had less space devoted to them than one would have liked. A new feature of this edition is that some problems with answers, given at the end of each chapter, are left as student exercises so the solutions are not included. The author wishes to thank his colleagues Professor P. N.*

ELECTRIC CIRCUIT PROBLEMS WITH SOLUTIONS

Springer Science & Business Media *Electrical-engineering and electronic-engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential. The author is very much in favour of tutorials and the solving of problems as a method of education. Experience shows that many engineering students encounter difficulties when they first apply their theoretical knowledge to practical problems. Over a period of about twenty years the author has collected a large number of problems on electric circuits while giving lectures to students attending the first two post-intermediate years of University engineering courses. The purpose of this book is to present these problems (a total of 365) together with many solutions (some problems, with answers, given at the end of each Chapter, are left as student exercises) in the hope that they will prove of value to other teachers and students. Solutions are separated from the problems so that they will not be seen by accident. The answer is given at the end of each problem, however, for convenience. Parts of the book are based on the author's previous work Electrical Engineering Problems with Solutions which was published in 1954.*

ELECTRIC CIRCUIT PROBLEMS WITH SOLUTIONS

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ELECTRIC CIRCUITS PROBLEM SOLVER

Research & Education Assoc. *REA's Electric Circuits Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. They're perfect for undergraduate and graduate studies. This highly useful reference is the finest overview of electric circuits currently available, with hundreds of electric circuits problems that cover everything from resistive inductors and capacitors to three-phase circuits and state equations. Each problem is clearly solved with step-by-step detailed solutions.*

PROBLEMS AND SOLUTIONS IN ELECTRONICS

Springer Science & Business Media *This book of problems with worked solutions is designed to provide practice in problem solving for students on undergraduate and HND programmes in Electronics. It may be used as a stand-alone book or as a companion volume to Electronics by Crecraft, Gorham and Sparkes (Chapman & Hall, 1992)*

PROB. & SOLUTIONS OF ELECTRONIC DEVICES & CIRCUITS

ELECTRIC CIRCUITS

SELECTED PROBLEMS WITH SOLUTIONS

CreateSpace *The theory of electric circuit analysis includes a great number of cases that are usually difficult for a student to understand them easily. However, in order to fully understand the operation of electric circuits the students should to fully understand the concepts, laws, mathematical relationships and methods of circuit analysis. Although a circuit theory book usually contains a number of solved examples, these do not cover sufficiently the theory and the techniques used in the analysis of electrical circuits. It is required by the students to train themselves by solving a significant number of additional problems, many of which must have a certain level of difficulties. This book contains a number of selected problems in electric circuits. It includes exercises involving the application of dc analysis methods, Kirchhoff's laws, mesh and nodal analysis, equivalent circuits, finding response first and second order circuits, convolution, state equation and general methods of network analysis. Emphasis has been given on understanding not only the theorems but also the basic techniques applied in the analysis of electric circuits. Thus, each problem is analytically solved by choosing the most appropriate technique. When students successfully complete the study of this book, they will have a good working knowledge of basic circuit principles and a demonstrated ability to solve a variety of circuit-related problems.*

ADVANCED ELECTRICAL CIRCUIT ANALYSIS

PRACTICE PROBLEMS, METHODS, AND SOLUTIONS

Springer Nature *This study guide is designed for students taking advanced courses in electrical circuit analysis. The book includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student's problem-solving skills and basic understanding of the topics covered in electric circuit analysis courses.*

ELECTRICAL AND ELECTRONIC DEVICES, CIRCUITS, AND MATERIALS

TECHNOLOGICAL CHALLENGES AND SOLUTIONS

John Wiley & Sons The increasing demand for electronic devices for private and industrial purposes lead designers and researchers to explore new electronic devices and circuits that can perform several tasks efficiently with low IC area and low power consumption. In addition, the increasing demand for portable devices intensifies the call from industry to design sensor elements, an efficient storage cell, and large capacity memory elements. Several industry-related issues have also forced a redesign of basic electronic components for certain specific applications. The researchers, designers, and students working in the area of electronic devices, circuits, and materials sometimes need standard examples with certain specifications. This breakthrough work presents this knowledge of standard electronic device and circuit design analysis, including advanced technologies and materials. This outstanding new volume presents the basic concepts and fundamentals behind devices, circuits, and systems. It is a valuable reference for the veteran engineer and a learning tool for the student, the practicing engineer, or an engineer from another field crossing over into electrical engineering. It is a must-have for any library.

FOUNDATIONS OF ANALOG AND DIGITAL ELECTRONIC CIRCUITS

Elsevier Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

DC ELECTRICAL CIRCUIT ANALYSIS

PRACTICE PROBLEMS, METHODS, AND SOLUTIONS

Springer Nature This study guide is designed for students taking courses in electrical circuit analysis. The book includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student's problem-solving skills and basic understanding of the topics covered in electric circuit analysis courses.

INVERSE PROBLEMS IN ELECTRIC CIRCUITS AND ELECTROMAGNETICS

Springer Science & Business Media This is the first book to offer a comprehensive exploration of new methods in inverse problems in electromagnetics. The book provides systematic descriptions of the most important practical inverse problems, and details new methods to solve them. Also included are descriptions of the properties of inverse problems and known solutions, as well as reviews of the practical implementation of these methods in electric circuit theory and electromagnetic fields theory. This comprehensive collection of modern theoretical ideas and methods to solve inverse problems will be of value to both students and working professionals.

3,000 SOLVED PROBLEMS IN ELECTRICAL CIRCUITS

McGraw Hill Professional Master electric circuit problems the time-saving Schaum's way! This thorough study tool is packed with 3,000 all-inclusive problems, showing the way to solve the problems faced on these difficult tests. Copyright © Libri GmbH. All rights reserved.

ELECTRIC CIRCUITS AND SIGNALS

CRC Press Solving circuit problems is less a matter of knowing what steps to follow than why those steps are necessary. And knowing the why stems from an in-depth understanding of the underlying concepts and theoretical basis of electric circuits. Setting the benchmark for a modern approach to this fundamental topic, Nassir Sabah's *Electric Circuits and Signals* supplies a comprehensive, intuitive, conceptual, and hands-on introduction with an emphasis on creative problem solving. A Professional Education Ideal for electrical engineering majors as a first step, this phenomenal textbook also builds a core knowledge in the basic theory, concepts, and techniques of circuit analysis, behavior, and operation for students following tracks in such areas as computer engineering, communications engineering, electronics, mechatronics, electric power, and control systems. The author uses hundreds of case studies, examples, exercises, and homework problems to build a strong understanding of how to apply theory to problems in a variety of both familiar and unfamiliar contexts. Your students will be able to approach any problem with total confidence. Coverage ranges from the basics of dc and ac circuits to transients, energy storage elements, natural responses and convolution, two-port circuits, Laplace and Fourier transforms, signal processing, and operational amplifiers. Modern Tools for Tomorrow's Innovators Along with a conceptual approach to the material, this truly modern text uses PSpice simulations with schematic Capture® as well as MATLAB® commands to give students hands-on experience with the tools they will use after graduation. Classroom Extras When you adopt *Electric Circuits and Signals*, you will receive a complete solutions manual along with its companion CD-ROM supplying additional material. The CD contains a Word™ file for each chapter providing bulleted, condensed text and figures that can be used as class slides or lecture notes.

ELECTRIC CIRCUIT ANALYSIS, 3E STUDENT PROBLEM SET AND SOLUTIONS

John Wiley & Sons Introduces the operational amplifier early, and uses it as a basic element throughout the book. Provides numerous exercises and examples throughout. Written in a clear, precise style that has been highly praised throughout many editions.

THE ELECTRIC CIRCUITS PROBLEM SOLVER

Research & Education Association Students can expect to be well-prepared for any exam on any topic in any subject with "The Electric Circuits Problem Solver". It solves not only the simple problems, but also those difficult problems not found in study/solution manuals.

OUTLINE OF ELECTRONIC CIRCUIT ANALYSIS

INCLUDING PROBLEMS WITH STEP-BY-STEP SOLUTIONS

AC ELECTRICAL CIRCUIT ANALYSIS

PRACTICE PROBLEMS, METHODS, AND SOLUTIONS

Springer Nature This study guide is designed for students taking courses in electrical circuit analysis. The textbook includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student's problem-solving skills and basic understanding of the topics covered in electric circuit analysis courses. Exercises cover a wide selection of basic and advanced questions and problems Categorizes and orders the problems based on difficulty level, hence suitable for both knowledgeable and under-prepared students Provides detailed and instructor-recommended solutions and methods, along with clear explanations Can be used along with the core textbooks in AC circuit analysis and advanced electrical circuit analysis

ELECTRICAL CIRCUIT THEORY AND TECHNOLOGY

Routledge *Electrical Circuit Theory and Technology* is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

PROB. & SOLUTIONS IN ELECTRIC CIRCUIT ANALYSIS

ELECTRIC CIRCUIT PROBLEMS

WITH SOLUTIONS

PROBLEMS & SOLUTIONS IN ELECTRONIC DEVICES AND ANALOG CIRCUITS

INTRODUCTION TO ELECTRIC CIRCUITS

John Wiley & Sons The central theme of *Introduction to Electric Circuits* is the concept that electric circuits are a part of the basic fabric of modern technology. Given this theme, this book endeavors to show how the analysis and design of electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic, communication, computer and control systems as well as consumer products. This book is designed for a one-to three-term course in electric circuits or linear circuit analysis, and is structured for maximum flexibility.

SUGGESTED SOLUTIONS TO "PROBLEMS IN PHYSICS". SET 41

SIMPLE ELECTRIC CIRCUITS

ELECTRIC CIRCUIT PROBLEMS WITH SOLUTIONS

DC ELECTRICAL CIRCUIT ANALYSIS

PRACTICE PROBLEMS, METHODS, AND SOLUTIONS

Springer This study guide is designed for students taking courses in electrical circuit analysis. The book includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student's problem-solving skills and basic understanding of the topics covered in electric circuit analysis courses.

THE ELECTRONICS PROBLEM SOLVER

Research & Education Assoc. Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. All your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. Nothing remotely as comprehensive or as helpful exists in their subject anywhere. Perfect for undergraduate and graduate studies. Here in this highly useful reference is the finest overview of electronics currently available, with hundreds of electronics problems that cover everything from circuits and transistors to amplifiers and generators. Each problem is clearly solved with step-by-step detailed solutions. DETAILS - The PROBLEM SOLVERS are unique - the ultimate in study guides. - They are ideal for helping students cope with the toughest subjects. - They greatly simplify study and learning tasks. - They enable students to come to grips with difficult problems by showing them the way, step-by-step, toward solving problems. As a result, they save hours of frustration and time spent on groping for answers and understanding. - They cover material ranging from the elementary to the advanced in each subject. - They work exceptionally well with any text in its field. - PROBLEM SOLVERS are available in 41 subjects. - Each PROBLEM SOLVER is prepared by supremely knowledgeable experts. - Most are over 1000 pages. - PROBLEM SOLVERS are not meant to be read cover to cover. They offer whatever may be needed at a given time. An excellent index helps to locate specific problems rapidly. TABLE OF CONTENTS Introduction Chapter 1: Fundamental Semiconductor Devices Properties of Semiconductors The p-n Junction Junction-Diode Characteristics Bipolar Transistor Theory Bipolar Transistor Characteristics Field-Effect Transistors Chapter 2: Analog Diode Circuits Clippers and Clampers Rectifiers and Filters Synthesis of Volt-Ampere Transfer Functions Zener Diode Voltage Regulators Miscellaneous Diode Circuits Chapter 3: Basic Transistor Circuits Inverter Common-Emitter Amplifier Emitter-Follower Common-Base Amplifier Bias Stability and Compensation Miscellaneous BJT Circuits Common-Source JFET Amplifier Common-Drain JFET Amplifier MOSFET Amplifiers Chapter 4: Small-Signal Analysis Amplifier Concepts and Hybrid Parameters Common-Emitter Amplifier Emitter-Follower Common-Base Amplifier Common-Source JFET Amplifier Common-Drain JFET Amplifier Common-Gate JFET Amplifier MOSFET Circuit Analysis Noise Chapter 5: Multiple Transistor Circuits Cascading of Stages Darlington Configuration Difference Amplifier Direct-Coupled Amplifiers Other Configurations Chapter 6: Power Amplifiers Class A Class B Push-Pull Class AB Push-Pull Complementary Symmetry Push-Pull Chapter 7: Feedback Circuits Feedback Concepts Gain and Impedance of Feedback Amplifiers Feedback Analysis and Design Stability of Feedback Circuits Regulated Power Supplies Chapter 8: Frequency Response of Amplifiers Low Frequency Response of BJT Amplifiers Low Frequency Response of FET Amplifiers High Frequency Behavior of CE Amplifiers High Frequency Behavior of CC and CB Amplifiers High Frequency Behavior of FET Amplifiers Multistage Amplifiers At High Frequencies The Gain Bandwidth Product Frequency Response of Miscellaneous Circuits Transistor Switch Chapter 9: Tuned Amplifiers and Oscillators Single-Tuned Amplifiers Double-Tuned Amplifiers Synchronously-Tuned Amplifiers Stagger-Tuned Amplifiers Other Tuned Amplifiers Phase-Shift Oscillators Colpitts Oscillators Hartley Oscillators Other Oscillators Chapter 10: Operational Amplifiers Basic Op-Amp Characteristics Frequency Response of Op-Amps Stability and Compensation Integrators and Differentiators Mathematical Applications of Op-Amps Active Filters The Comparator Miscellaneous Op-Amp Applications Chapter 11: Timing Circuits Waveform Generators Monostable Multivibrators Schmitt Trigger Sweep Circuits Miscellaneous Circuits Chapter 12: Other Electronic Devices and Circuits Tubes SCR and TRIAC Circuits Unijunction Transistors Tunnel Diodes Four-Layer Diodes Light-Controlled Devices Miscellaneous Circuits D/A and A/D Converters Chapter 13: Fundamental Digital Circuits Diode Logic (DL) Gates Resistor-Transistor Logic (RTL) Gates Diode-Transistor Logic (DTL) Gates Transistor-Transistor Logic (TTL) Gates Emitter-Coupled Logic (ECL) Gates MOSFET Logic Gates Chapter 14: Combinational Digital Circuits Boolean Algebra Logic Analysis Logic Synthesis Encoders, Multiplexers, and ROM's Chapter 15: Sequential Digital Circuits Flip-Flops Synthesis of Sequential Circuits Analysis of Sequential Circuits Counters Shift Registers Appendix Index WHAT THIS BOOK IS FOR Students have generally found electronics a difficult subject to understand and learn. Despite the publication of hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of electronics continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of electronics terms also contribute to the difficulties of mastering the subject. In a study of electronics, REA found the following basic reasons underlying the inherent difficulties of electronics: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by an electronics professional who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an example

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 ELECTRONIC CIRCUITS

PROBLEMS AND SOLUTIONS

Springer This book contains entirely numerical problems and fully worked solutions in the topic of basic electronic circuits and it is designed for entry-level undergraduate courses as a supplement to standard textbooks and references. Each chapter contains interesting numerical problems with fully worked solutions to illustrate the approach of problem solving techniques for electronic circuits. The book is written in a lucid manner so that students are able to understand the realization behind the mathematical concepts which are the backbone of this subject. The book will benefit students who are taking introductory courses in electronic circuits and devices.

INTRODUCTION TO TRANSIENTS IN ELECTRICAL CIRCUITS

ANALYTICAL AND DIGITAL SOLUTION USING AN EMTMP-BASED SOFTWARE

Springer Nature This book integrates analytical and digital solutions through Alternative Transients Program (ATP) software, recognized for its use all over the world in academia and in the electric power industry, utilizing a didactic approach appropriate for graduate students and industry professionals alike. This book presents an approach to solving singular-function differential equations representing the transient and steady-state dynamics of a circuit in a structured manner, and without the need for physical reasoning to set initial conditions to zero plus (0+). It also provides, for each problem presented, the exact analytical solution as well as the corresponding digital solution through a computer program based on the Electromagnetics Transients Program (EMTP). Of interest to undergraduate and graduate students, as well as industry practitioners, this book fills the gap between classic works in the field of electrical circuits and more advanced works in the field of transients in electrical power systems, facilitating a full understanding of digital and analytical modeling and solution of transients in basic circuits.

OUTLINE OF A ELECTRONIC CIRCUIT ANALYSIS

INCLUDING PROBLEMS WITH STEP-BY-STEP SOLUTIONS

ELECTRONIC LOGIC CIRCUITS

Routledge Most branches of organizing utilize digital electronic systems. This book introduces the design of such systems using basic logic elements as the components. The material is presented in a straightforward manner suitable for students of electronic engineering and computer science. The book is also of use to engineers in related disciplines who require a clear introduction to logic circuits. This third edition has been revised to encompass the most recent advances in technology as well as the latest trends in components and notation. It includes a wide coverage of application specific integrated circuits (ASICs), many worked examples and a step-by-step logical and practical approach.

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.

PROBLEMS AND SOLUTIONS IN ELECTRIC CIRCUITS AND NETWORKS

(WITH ESSENTIAL THEORY)

ANALOG PHENOMENA IN DIGITAL CIRCUITS

SOME PROBLEMS AND SOLUTIONS FOR AGGRESSIVE ELECTRONIC CIRCUITS

SOLUTIONS MANUAL ELECTRIC CIRCUITS

FOURTH EDITION

INTRODUCTION TO ELECTRIC CIRCUITS

John Wiley & Sons Known for its clear problem-solving methodology and its emphasis on design, as well as the quality and quantity of its problem sets, Introduction to Electric Circuits, Ninth Edition by Dorf and Svoboda will help readers to think like engineers. Abundant design examples, design problems, and the How Can We Check feature illustrate the texts focus on design. The 9th edition continues the expanded use of problem-solving software such as PSpice and MATLAB. WileyPLUS sold separately from text.

ELECTRIC CIRCUITS

Cengage Learning Now readers can master the fundamentals of electric circuits with Kang's ELECTRIC CIRCUITS. Readers learn the basics of electric circuits with common design practices and simulations as the book presents clear step-by-step examples, practical exercises, and problems. Each chapter includes several examples and problems related to circuit design, with answers for odd-numbered questions so learners can further prepare themselves with self-guided study and practice. ELECTRIC CIRCUITS covers everything from DC circuits and AC circuits to Laplace transformed circuits. MATLAB scripts for certain examples give readers an alternate method to solve circuit problems, check answers, and reduce laborious derivations and calculations. This edition also provides PSpice and Simulink examples to demonstrate electric circuit simulations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

PROBLEM SOLVING MADE ALMOST EASY

A COMPANION TO FUNDAMENTALS OF ELECTRIC CIRCUITS

McGraw-Hill Science, Engineering & Mathematics *This workbook is for sale to students who wish to practice their problem solving techniques. The workbook contains a discussion of problem solving strategies and 150 additional problems with complete solutions provided.*

SOLUTION OF INITIAL-VALUE AND BOUNDARY-VALUE PROBLEMS IN ELECTRIC CIRCUIT AND ELECTROMAGNETIC FIELD THEORY BY FINITE LAPLACE AND Z-TRANSFORMS
