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[Electrical Engineering: Know It All](#) Sep 17 2021 The Newnes Know It All Series takes the best of what our authors have written to create hard-working desk references that will be an engineer's first port of call for key information, design techniques and rules of thumb. Guaranteed not to gather dust on a shelf! Electrical engineers need to master a wide area of topics to excel. The [Electrical Engineering Know It All](#) covers every angle including Real-World Signals and Systems, Electromagnetics, and Power systems. A 360-degree view from our best-selling authors Topics include digital, analog, and power electronics, and electric circuits The ultimate hard-working desk reference; all the essential information, techniques and tricks of the trade in one volume

[Mathematics for Electrical Engineering and Computing](#) Mar 24 2022 [Mathematics for Electrical Engineering and Computing](#) embraces many applications of modern mathematics, such as Boolean Algebra and Sets and Functions, and also teaches both discrete and continuous systems - particularly vital for Digital Signal Processing (DSP). In addition, as most modern engineers are required to study software, material suitable for Software Engineering - set theory, predicate and propositional calculus, language and graph theory - is fully integrated into the book. Excessive technical detail and language are avoided, recognising that the real requirement for practising engineers is the need to understand the applications of mathematics in everyday engineering contexts. Emphasis is given to an appreciation of the fundamental concepts behind the mathematics, for problem solving and undertaking critical analysis of results, whether using a calculator or a computer. The text is backed up by numerous exercises and worked examples throughout, firmly rooted in engineering practice, ensuring that all mathematical theory introduced is directly relevant to real-world engineering. The book includes introductions to advanced topics such as Fourier analysis, vector calculus and random processes, also making this a suitable introductory text for second year undergraduates of electrical, electronic and computer engineering, undertaking engineering mathematics courses. Dr Attenborough is a former Senior Lecturer in the School of Electrical, Electronic and Information Engineering at South Bank University. She is currently Technical Director of The Webbery - Internet development company, Co. Donegal, Ireland. Fundamental principles of mathematics introduced and applied in engineering practice, reinforced through over 300 examples directly relevant to real-world engineering

[Electrical Engineer's Reference Book](#) Oct 07 2020 For ease of use, this edition has been divided into the following subject sections: general principles; materials and processes; control, power electronics and drives; environment; power generation; transmission and distribution; power systems; sectors of electricity use. New chapters and major revisions include: industrial instrumentation; digital control systems; programmable controllers; electronic power conversion; environmental control; hazardous area technology; electromagnetic compatibility; alternative energy sources; alternating current generators; electromagnetic transients; power system planning; reactive power plant and FACTS controllers; electricity economics and trading; power quality. *An essential source of techniques, data and principles for all practising electrical engineers *Written by an international team of experts from engineering companies and universities *Includes a major new section on control systems, PLCs and microprocessors

[Basic Electrical Engineering](#) Nov 07 2020 For close to 30 years, [Basic Electrical Engineering](#) has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Mastering Electrical Engineering Sep 25 2019 A complete self-contained course for individual study or classroom use, with no previous knowledge of the subject required. *Mastering Electrical Engineering* is suitable for all GCSE, A-level, GNVQ and BTEC courses and provides a modern practical approach to the subject.

Electrical Principles and Technology for Engineering Jan 28 2020 The aim of this book is to introduce students to the basic electrical and electronic principles needed by technicians in fields such as electrical engineering, electronics and telecommunications. The emphasis is on the practical aspects of the subject, and the author has followed his usual successful formula, incorporating many worked examples and problems (answers supplied) into the learning process. *Electrical Principles and Technology for Engineering* is John Bird's core text for Further Education courses at BTEC levels N11 and N111 and Advanced GNVQ. It is also designed to provide a comprehensive introduction for students on a variety of City & Guilds courses, and any students or technicians requiring a sound grounding in *Electrical Principles and Electrical Power Technology*.

Schaum's Outline of Basic Electrical Engineering Nov 27 2019 A comprehensive guide to electrical engineering.

Handbook of Electrical Engineering Nov 19 2021 A practical treatment of power system design within the oil, gas, petrochemical and offshore industries. These have significantly different characteristics to large-scale power generation and long distance public utility industries. Developed from a series of lectures on electrical power systems given to oil company staff and university students, Sheldrake's work provides a careful balance between sufficient mathematical theory and comprehensive practical application knowledge. Features of the text include: Comprehensive handbook detailing the application of electrical engineering to the oil, gas and petrochemical industries Practical guidance to the electrical systems equipment used on off-shore production platforms, drilling rigs, pipelines, refineries and chemical plants Summaries of the necessary theories behind the design together with practical guidance on selecting the correct electrical equipment and systems required Presents numerous 'rule of thumb' examples enabling quick and accurate estimates to be made Provides worked examples to demonstrate the topic with practical parameters and data Each chapter contains initial revision and reference sections prior to concentrating on the practical aspects of power engineering including the use of computer modelling Offers numerous references to other texts, published papers and international standards for guidance and as sources of further reading material Presents over 35 years of experience in one self-contained reference Comprehensive appendices include lists of abbreviations in common use, relevant international standards and conversion factors for units of measure An essential reference for electrical engineering designers, operations and maintenance engineers and technicians.

Electrical Engineering Dec 21 2021 This comprehensive revision of a popular text helps non-electrical engineering majors--the future users, rather than the designers of electrical devices, systems, and machines--gain a conceptual understanding of electrical engineering. Early coverage of systems and an emphasis on an IC (integrated circuits) "building block" approach motivates non-majors. The text features integration of analog and digital technology with cutting-edge coverage of op-amps, feedback and analog systems. A section on SPICE, the leading computer-aided circuit analysis software, introduces students to computerized analysis of circuits. Chapter-end Applications capture student interest by relating material to contemporary topics such as automobile suspension systems, high-fidelity audio, and hand-held computers.

Applied Electricity Apr 24 2022

Dielectric Materials for Electrical Engineering Oct 26 2019 Part 1 is particularly concerned with physical properties, electrical ageing and modeling with topics such as the physics of charged dielectric materials, conduction mechanisms, dielectric relaxation, space charge, electric ageing and life end models and dielectric experimental characterization. Part 2 concerns some applications specific to dielectric materials: insulating oils for transformers, electrorheological fluids, electrolytic capacitors, ionic membranes, photovoltaic conversion, dielectric thermal control coatings for geostationary satellites, plastics recycling and piezoelectric polymers.

Fundamentals of Electrical Engineering, Part 1 Sep 05 2020 The understanding of fundamental concepts of electrical engineering is necessary before moving on to more advanced concepts. This book is designed as a textbook for an introductory course in electrical engineering for undergraduate students from all branches of engineering. The text is organized into fourteen chapters, and provides a balance between theory and applications. Numerous circuit diagrams and explicit illustrations add to the readability of the text. The authors have covered some important topics such as electromagnetic field theory, electrostatics, electrical circuits, magnetostatics, network theorems, three-phase systems and electrical machines. A separate chapter on measurement and instrumentation covers important topics including errors in measurement, electro-mechanical indicating instruments, current transformers and potential transformers in detail. Pedagogical features are interspersed throughout the book for better understanding of concepts.

Fundamentals of Electrical Engineering I Sep 29 2022

Electrical Engineering for Non-Electrical Engineers, Second Edition Mar 31 2020 This book is designed to serve as a resource for exploring and understanding basic electrical engineering concepts, principles, analytical and mathematical strategies that will aid the reader in progressing their electrical engineering knowledge to intermediate or advanced levels. The study of electrical engineering concepts, principles and analysis techniques is made relatively easy for the reader by inclusion of most of the reference data, in form of excerpts from different parts of the book, within the discussion of each case study, exercise and self-assessment problem solution. This is done in an effort to facilitate quick study

and comprehension of the material without repetitive search for reference data in other parts of the book. To this new edition the author has introduced a new chapter on batteries where the basic, yet important, facets of the battery and its sustainable and safe operation is covered. The reader will be shown the not-so-obvious charging and discharging performance characteristics of batteries that can be determining factors in the selection, application and optimal performance of batteries.

A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering) Jul 04 2020 The primary objective of vol. I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil, mechanical, mining, textile, chemical, industrial, environmental, aerospace, electronic and computer engineering both at the Degree and diploma level. Based on the suggestions received from our esteemed readers, both from India and abroad, the scope of the book has been enlarged according to their requirements. Almost half the solved examples have been deleted and replaced by latest examination papers set upto 1994 in different engineering colleges and technical institutions in India and abroad.

Continuous Signals and Systems with MATLAB Jan 22 2022 Designed for a one-semester undergraduate course in continuous linear systems, Continuous Signals and Systems with MATLAB®, Second Edition presents the tools required to design, analyze, and simulate dynamic systems. It thoroughly describes the process of the linearization of nonlinear systems, using MATLAB® to solve most examples and problems. With updates and revisions throughout, this edition focuses more on state-space methods, block diagrams, and complete analog filter design. New to the Second Edition • A chapter on block diagrams that covers various classical and state-space configurations • A completely revised chapter that uses MATLAB to illustrate how to design, simulate, and implement analog filters • Numerous new examples from a variety of engineering disciplines, with an emphasis on electrical and electromechanical engineering problems Explaining the subject matter through easy-to-follow mathematical development as well as abundant examples and problems, the text covers signals, types of systems, convolution, differential equations, Fourier series and transform, the Laplace transform, state-space representations, block diagrams, system linearization, and analog filter design. Requiring no prior fluency with MATLAB, it enables students to master both the concepts of continuous linear systems and the use of MATLAB to solve problems.

Electrical Engineering Apr 12 2021

Higher Electrical Engineering Feb 20 2022 This volume has been designed to cover the A1 and A2 stages of the Higher National Certificate in Electrical and Electronic Engineering. The contents correspond with much of the work in the Department of Education and Science outline syllabuses for HNC courses in England and Scotland and the text should also be useful for undergraduate CEI Part 1 and HND courses.

Circuits, Devices and Systems Jun 14 2021 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. 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.

Practical Electrical Engineering Dec 09 2020 This new edition of a proven textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical and computer engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as robotics, mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering. The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

Electrical Engineering Jul 24 2019 This is a superb source of quickly accessible information on the whole area of electrical engineering and electronics. It serves as a concise and quick reference, with self-contained chapters comprising all important expressions, formulas, rules and theorems, as well as many examples and applications.

An Introduction to Electrical Science Aug 17 2021 An Introduction to Electrical Science walks readers through the subject in a logical order, providing a historical overview alongside modern electrical theory and practice. Perfect for electrical trainees both during their training and once qualified. You will be guided through the subject in a topic by topic manner with each section building upon the one that came before it. By adding context to the principles of electrical science the topics become easier to both understand and remember, providing a grounding in the subject that will remain with you for life. With a wealth of examples, images and diagrams mastering difficult concepts will be a breeze. This book also has a companion site with an extra chapter, interactive multiple choice quizzes for each chapter and more at www.routledge.com/cw/waygood Fully aligned to the 17th edition of the wiring regulations Free access to companion website material, including multiple-choice tests and extra chapters Two-colour layout helps navigation and highlights key points Visit the companion website at www.routledge.com/cw/waygood

The Beginner's Guide to Engineering Dec 29 2019 The Beginner's Guide to Engineering series is designed to provide a very simple, non-technical introduction to the fields of engineering for people with no

experience in the fields. Each book in the series focuses on introducing the reader to the various concepts in the fields of engineering conceptually rather than mathematically. These books are a great resource for high school students that are considering majoring in one of the engineering fields, or for anyone else that is curious about engineering but has no background in the field. Books in the series: 1. The Beginner's Guide to Engineering: Chemical Engineering 2. The Beginner's Guide to Engineering: Computer Engineering 3. The Beginner's Guide to Engineering: Electrical Engineering 4. The Beginner's Guide to Engineering: Mechanical Engineering

Practical Electrical Engineering Jun 26 2022 This textbook provides comprehensive, in-depth coverage of the fundamental concepts of electrical engineering. It is written from an engineering perspective, with special emphasis on circuit functionality and applications. Reliance on higher-level mathematics and physics, or theoretical proofs has been intentionally limited in order to prioritize the practical aspects of electrical engineering. This text is therefore suitable for a number of introductory circuit courses for other majors such as mechanical, biomedical, aerospace, civil, architecture, petroleum, and industrial engineering. The authors' primary goal is to teach the aspiring engineering student all fundamental tools needed to understand, analyze and design a wide range of practical circuits and systems. Their secondary goal is to provide a comprehensive reference, for both major and non-major students as well as practicing engineers.

Electrical Engineering Aug 05 2020 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.

Electrical Engineering Fundamentals May 26 2022 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.

Handbook of Electrical Engineering Calculations Feb 08 2021 Written by experienced teachers and recognized experts in electrical engineering, Handbook of Electrical Engineering Calculations identifies and solves the seminal problems with numerical techniques for the principal branches of the field -- electric power, electromagnetic fields, signal analysis, communication systems, control systems, and computer engineering. It covers electric power engineering, electromagnetics, algorithms used in signal analysis, communication systems, algorithms used in control systems, and computer engineering. Illustrated with detailed equations, helpful drawings, and easy-to-understand tables, the book serves as a practical, on-the-job reference.

A Textbook of Electrical Technology - Volume IV May 14 2021 A Textbook of Electrical Technology (Vol. IV) Multicolor pictures have been added to enhance the content value and give to the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice. A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development in the subject. Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

Fundamentals of Electrical Engineering Jul 16 2021 Real-world engineering problems are rarely, if ever, neatly divided into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of electric machines and power engineering—and his world-renowned

colleague Thad Roppel, *Fundamentals of Electrical Engineering* provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical engineers are forced to handle problems involving process control. Simple and easy-to-use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical methods that hold little relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses for non-electrical engineers, or non-EEs, have presented watered-down classical EE material, resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several important contemporary interdisciplinary examples to support this approach. The result is a full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and faculty can both enjoy.

Lessons in Electric Circuits: An Encyclopedic Text & Reference Guide (6 Volumes Set) Oct 31 2022

Electrical Engineering Jun 02 2020 For courses in Electrical Engineering. The #1 title in its market, *Electrical Engineering: Principles and Applications* helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. This book covers circuit analysis, digital systems, electronics, and electromechanics at a level appropriate for either electrical-engineering students in an introductory course or non-majors in a survey course. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession. The only essential prerequisites are basic physics and single-variable calculus. The 7th Edition features technology and content updates throughout the text.

Pocket Book of Electrical Engineering Formulas May 02 2020 *Pocket Book of Electrical Engineering Formulas* provides key formulas used in practically all areas of electrical engineering and applied mathematics. This handy, pocket-sized guide has been organized by topic field to make finding information quick and easy. The book features an extensive index and is an excellent quick reference for electrical engineers, educators, and students.

Electrical Engineering Aug 24 2019 Excerpt from *Electrical Engineering: An Elementary Text-Book* This book had its origin in a number of lectures which I delivered two years ago to the workmen and the staff of a large electrical manufacturing firm. The circle of readers for which this book is intended is, in the first place, the same as that to which my audience belonged. It should give to workmen of electrical engineering works the knowledge of the operation of machines and apparatus with which they are concerned. I have endeavoured to use such language that people who have only a general school education should be able to understand. For this reason several matters have been dealt with very completely which, to the mathematically educated man, could have been explained in a few lines - such as, for instance, Ohm's Law and resistance calculations. I have in these cases endeavoured to explain the matter first without the help of mathematics, and then have finally, as a keystone - after having worked some examples - stated the formulæ. In the part relating to the "output of a three-phase current system," in a similar way, there are calculations and formulæ, since it is necessary for the student to be acquainted with these. Generally, however, calculations and formulæ are avoided, as in the case of the whole chapter about dynamos. The book will not enable the reader to calculate the parts and windings of dynamos, and he should not even think that he is able to do so. For the elementary student, the wireman, for the engineer as well as for the general public who desire to know something about electrical engineering, it is quite sufficient if they understand the working of dynamos, their faults, and the reason and the cure of the latter. The book covers a wide area. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Advanced Electrical and Electronics Engineering Jun 22 2019 2010 First International Conference on Electrical and Electronics Engineering was held in Wuhan, China December 4-5. *Advanced Electrical and Electronics Engineering* book contains 72 revised and extended research articles written by prominent researchers participating in the conference. Topics covered include, Power Engineering, Telecommunication, Control engineering, Signal processing, Integrated circuit, Electronic amplifier, Nano-technologies, Circuits and networks, Microelectronics, Analog circuits, Digital circuits, Nonlinear circuits, Mixed-mode circuits, Circuits design, Sensors, CAD tools, DNA computing, Superconductivity circuits. *Electrical and Electronics Engineering* will offer the state of art of tremendous advances in Electrical and Electronics Engineering and also serve as an excellent reference work for researchers and graduate students working with/on Electrical and Electronics Engineering.

Electronic and Electrical Engineering Jul 28 2022 The third edition of this text provides a foundation in electronic and electrical engineering for HND and undergraduate students. The book offers breadth of coverage without sacrificing depth, using practical examples to illustrate the theory and making no excessive demands on the reader's mathematical skills. It can be used as a teaching tool or for self

study.

Basic Electrical Engineering Jan 10 2021 Basic Electrical Engineering 2e provides a lucid exposition of the principles of electrical engineering for both electrical as well as non-electrical undergraduates of engineering. Students pursuing diploma courses as well as those appearing for AMIE examinations would also find this book extremely useful.

Electrical Engineering 101 Aug 29 2022 Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, *EE101* delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

Electrical and Electronic Principles and Technology Feb 29 2020 This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

Electromagnetics Oct 19 2021

Electrical Circuit Theory and Technology Mar 12 2021 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.

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