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Basic Electrical Engg - Revised Ed [Tata McGraw-Hill Education](#) **Covers entire spectrum of basic electrical engineering from the fundamentals to measuring instruments in a single volume. Special focus on step-by step and tutorial approach for solved examples 16 lab experiments included in the text. Rich pool of pedagogy. Basic Electrical Engineering [S. Chand Publishing](#) **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. Basic Electronics and Linear Circuits Basic Electrical Engineering [S. Chand Publishing](#) **This book is designed based on revised syllabus of JNTU, Hyderabad (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation. Electronic Devices And Circuits Electronics Engineering : (As Per The New Syllabus, B.Tech. I Year Of U.P. Technical University) [New Age International](#) **Suitable for a student taking a course in Electronics for the first time, this title explains 'what electronics is', 'what are its applications in our day-to-day life', 'what components are used in electronic circuits', 'Future trends in electronics', and more. 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 Electrotechnologies for Extraction from Food Plants and Biomaterials [Springer Science & Business Media](#) **Recently, the electrotechnologies based on the effects of pulsed electric fields (PEF), such as ohmic heating (OH) and DC electric field, have gained real interest in the field of food processing. These techniques efficiently enhance methods of extraction from food plants and dehydration of biosolids. The PEF and pulsed OH techniques preserve the nutritional, functional, structural and sensory properties of products better than conventional extraction technologies. The electrofiltration and electro-osmotic dewatering can be very effective for the separation of bioproducts and dehydration of food wastes. The first source book in the field, this book gives an overview the fundamental principles of electrical techniques, electrophysical properties of foods and agricultural products, application of various emerging electrotechnologies for enhancing the solid-liquid separation and drying processes, extraction techniques of pigments, processing methods of different in-plant tissues and biosolids, electro-osmotic dewatering and electrofiltration of biomaterials, recent industrial-scale gains, and other aspects. Each chapter is complementary to other chapters and addresses the latest efforts in the field. A Textbook of Electrical Technology - Volume IV** [S. Chand Publishing](#) **A Textbook of Electrical Technology(Vol. IV)Multicolorpictures have been added to enhance the contenet value and give to the students an idea of what he will be dealing in realityand 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. Electrical Installation Calculations: Basic** [Routledge](#) **Designed to provide a step-by-step guide to successful application of the electrical installation calculations required in day-to-day electrical engineering practice, the Electrical Installation Calculations series has proved an invaluable reference for over forty years, for both apprentices and professional electrical installation engineers alike. Now in its eighth edition, Volume 1 has been fully updated in line with the 17th Edition IEE Wiring Regulations (BS 7671:2008) and references the material covered to the Wiring Regs throughout. The content meets the requirements of the 2330 Level 2 Certificate in Electrotechnical Technology from City & Guilds. Essential calculations which may not necessarily feature as part of the requirements of the syllabus are retained for reference by professional electrical installation engineers based in industry, or for those students wishing to progress to higher levels of study. The book's structure and new design make finding the required calculation easy. Key terms are explained in a glossary section and worked examples and exercises are**********

included throughout the text to maximise accessibility of the material for the reader. A complete question and answer section is included at the back of the book to enable readers to check their understanding of the calculations presented. Also available: **Electrical Installation Calculations Volume 2, 7th edn**, by Watkins & Kitcher - the calculations required for advanced electrical installation work and Level 3 study and apprenticeships. **Advances in Signal Processing and Communication Select Proceedings of ICSC 2018** [Springer](#) This book is a collection of selected peer-reviewed papers presented at the International Conference on Signal Processing and Communication (ICSC 2018). It covers current research and developments in the fields of communications, signal processing, VLSI circuits and systems, and embedded systems. The book offers in-depth discussions and analyses of latest problems across different sub-fields of signal processing and communications. The contents of this book will prove to be useful for students, researchers, and professionals working in electronics and electrical engineering, as well as other allied fields. **ELECTRONICS Analog and Digital** [PHI Learning Pvt. Ltd.](#) The second edition of this book has been updated and enlarged, especially the chapters on digital electronics. In the analog part, several additions have been made wherever necessary. Also, optical devices and circuits have been introduced. Analog electronics spans semiconductors, diodes, transistors, small and large-signal amplifiers, OPAMPs and their applications. Both BJT and JFET, and MOSFET are treated parallelly so as to highlight their similarities and dissimilarities for thorough understanding of their parameters and specifications. The digital electronics covers logic gates, combinational circuits, IC families, number systems codes, adders/subtractors, flip-flops, registers and counters. Sequential circuits, memories and D/A and A/D convertor circuits are especially stressed. Fabrication technology of integrated devices and circuits have also been dealt with. Besides, many new examples and problems have been added section-wise. The text is written in simple yet rigorous manner with profusion of illustrative examples as an aid to clear understanding. The student can self-study several portions of the book with minimal guidance. A solution manual is available for the teachers. **Basic Electricity** [Courier Corporation](#) Originally a training course; best nontechnical coverage. Topics include batteries, circuits, conductors, AC and DC, inductance and capacitance, generators, motors, transformers, amplifiers, etc. Many questions with answers. 349 illustrations. 1969 edition. **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. **Chemical and Bioprocess Engineering Fundamental Concepts for First-Year Students** [Springer Science & Business Media](#) The goal of this textbook is to provide first-year engineering students with a firm grounding in the fundamentals of chemical and bioprocess engineering. However, instead of being a general overview of the two topics, **Fundamentals of Chemical and Bioprocess Engineering** will identify and focus on specific areas in which attaining a solid competency is desired. This strategy is the direct result of studies showing that broad-based courses at the freshman level often leave students grappling with a lot of material, which results in a low rate of retention. Specifically, strong emphasis will be placed on the topic of material balances, with the intent that students exiting a course based upon this textbook will be significantly higher on Bloom's Taxonomy (knowledge, comprehension, application, analysis and synthesis, evaluation, creation) relating to material balances. In addition, this book also provides students with a highly developed ability to analyze problems from the material balances perspective, which leaves them with important skills for the future. The textbook consists of numerous exercises and their solutions. Problems are classified by their level of difficulty. Each chapter has references and selected web pages to vividly illustrate each example. In addition, to engage students and increase their comprehension and rate of retention, many examples involve real-world situations. **Basic Electrical Engineering** [Pearson Education India](#) **Renewable Energy Integration Challenges and Solutions** [Springer Science & Business Media](#) This book presents different aspects of renewable energy integration, from the latest developments in renewable energy technologies to the currently growing smart grids. The importance of different renewable energy sources is discussed, in order to identify the advantages and challenges for each technology. The rules of connecting the renewable energy sources have also been covered along with practical examples. Since solar and wind energy are the most popular forms of renewable energy sources, this book provides the challenges of integrating these renewable generators along with some innovative solutions. As the complexity of power system operation has been raised due to the renewable energy integration, this book also includes some analysis to investigate the characteristics of power systems in a smarter way. This book is intended for those working in the area of renewable energy integration in distribution networks. **Basic Electrical Engineering Sustainable Agriculture and Climate Change Sustainability** covers environmental, social and economic dimensions, and requires a multi-disciplinary approach in order to examine, explore and critically engage with issues and advances in its related areas. As we are aware, climate change is a certainty and it affects many economic sectors, including agriculture, particularly production of crop and livestock enterprises. Vast regional differences in these impacts are expected for various parts of the world, culminating in changes in trade patterns, and perhaps eventually even threatening the food security in certain parts of the world. Agricultural sustainability may be especially threatened by climate extremes, such as heat waves, droughts, and floods. However, not all changes induced by climate change would be negative; some may even be positive. Undoubtedly, there would be winners and losers within a nation, as well as among countries. Achieving sustainability would require changes in the way we manage agriculture. Equally important in this discourse is to find solutions to achieve sustainability in the wake of climate change, one of the major threats to sustainability. This book is devoted to various aspect of sustainable agriculture and climate change and their interplay. **Introduction to Basic Electricity and Electronics Technology** [Cengage Learning](#) Get energized about your future with **INTRODUCTION TO BASIC ELECTRICITY AND ELECTRONICS TECHNOLOGY, 1st Edition**, the easy-to-read resource on electricity

and electronics! Emphasizing teamwork and critical thinking, this entry-level book helps you understand technical vocabulary and technologies while imparting the skills necessary to read schematic diagrams, apply problem-solving formulas, and follow troubleshooting processes. Topics address all key fundamentals, including direct and alternating current, semiconductor devices, linear circuits, digital circuits, printed circuit board fabrication, test equipment, and more. Practical, job-based discussions delve into calculator applications, hazardous materials handling, general safety protocols, using power and hand tools, electronics software, professional certifications, and the many career options for technicians. Accompanied by a Lab Manual for hands-on practice, **INTRODUCTION TO BASIC ELECTRICITY AND ELECTRONICS TECHNOLOGY**, 1st Edition is available in a convenient eBook format and with a variety of interactive supplements designed to make learning easier. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. **Basic Electrical Engineering Principles of Electrical Machines** S. Chand Publishing For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention. **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. **Pharmaceutical Suspensions From Formulation Development to Manufacturing** Springer Science & Business Media The suspension dosage form has long been used for poorly soluble active ingredients for various therapeutic indications. Development of stable suspensions over the shelf life of the drug product continues to be a challenge on many fronts. A good understanding of the fundamentals of disperse systems is essential in the development of a suitable pharmaceutical suspension. The development of a suspension dosage form follows a very complicated path. The selection of the proper excipients (surfactants, viscosity imparting agents etc.) is important. The particle size distribution in the finished drug product dosage form is a critical parameter that significantly impacts the bioavailability and pharmacokinetics of the product. Appropriate analytical methodologies and instruments (chromatographs, viscosimeters, particle size analyzers, etc.) must be utilized to properly characterize the suspension formulation. The development process continues with a successful scale-up of the manufacturing process. Regulatory agencies around the world require clinical trials to establish the safety and efficacy of the drug product. All of this development work should culminate into a regulatory filing in accordance with the regulatory guidelines. **Pharmaceutical Suspensions, From Formulation Development to Manufacturing**, in its organization, follows the development approach used widely in the pharmaceutical industry. The primary focus of this book is on the classical disperse system - poorly soluble active pharmaceutical ingredients suspended in a suitable vehicle. **THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING**, Second Edition Second Edition PHI Learning Pvt. Ltd. This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems. **Electrical Machines - I** Technical Publications The importance of various electrical machines is well known in the various engineering fields. The book provides comprehensive coverage of the magnetic circuits, magnetic materials, single and three phase transformers and d.c. machines. The book is structured to cover the key aspects of the course **Electrical Machines - I**. The book starts with the explanation of basics of magnetic circuits, concepts of self and mutual inductances and important magnetic materials. Then it explains the fundamentals of single phase transformers including the construction, phasor diagram, equivalent circuit, losses, efficiency, methods of cooling, parallel operation and autotransformer. The chapter on three phase transformer provides the detailed discussion of construction, connections, phasor groups, parallel operation, tap changing transformer and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book further explains the concept of electromechanical energy conversion including the discussion of singly and multiple excited systems. Then the book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics, parallel operation and applications. The book also includes the details of d.c. motors such as characteristics, types of starters, speed control methods, electric braking and permanent magnet d.c. motors. Finally, the book covers the various testing methods of d.c. machines including Swinburne's test, brake test, retardation test

and Hopkinson's test. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and variety of solved problems. All the chapters are arranged in a proper sequence that permits each topic to build upon earlier studies. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. Highway Engineering The Electric Power Engineering Handbook [CRC Press](#) The astounding technological developments of our age depend on a safe, reliable, and economical supply of electric power. It stands central to continued innovations and particularly to the future of developing countries. Therefore, the importance of electric power engineering cannot be overstated, nor can the importance of this handbook to the power engineer. Until now, however, power engineers have had no comprehensive reference to help answer their questions quickly, concisely, and authoritatively-A one-stop reference written by electric power engineers specifically for electric power engineers. **FUNDAMENTALS OF ELECTRICAL ENGINEERING** [PHI Learning Pvt. Ltd.](#) This comprehensive book, in its third edition, continues to provide an in-depth analysis on the fundamental principles of electrical engineering. The exposition of these principles is fully reinforced by many practical problems that illustrate the concepts discussed. Beginning with a precise and quantitative detailing of the basics of electrical engineering, the text moves on to explain the fundamentals of circuit theory, electrostatic and electromagnetism and further details on the concept of electromechanical energy conversion. The book provides an elaborate and systematic analysis of the working principle, applications and construction of each electrical machine. In addition to circuit responses under steady state conditions, the book contains the chapters on dynamic responses of networks and analysis of a three-phase circuit. In this third edition, two chapters on Electrical Power System and Domestic Lighting have been added to fulfil the syllabus requirement of various universities. The chapters discuss different methods of generating electrical power, economic consideration and tariff of power system, illumination, light sources used in lighting systems, conductor size and insulation, lighting accessories used in wiring systems, fuses and MCBs, meter board, main switch and distribution board, earthing methods, types of wiring, wiring system for domestic use and cost estimation of wiring system. Designed as a text for the undergraduate students of almost all branches of engineering, the book will also be useful to the practising engineers as reference. **Key Features** • Discusses statements with numerical examples • Includes answers to the numerical problems at the end of the book • Enhances learning of the basic working principles of electrical machines by using a number of supporting examples, review questions and illustrative examples **Principles Of Electrical Engineering And Electronics 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. **Electrical and Electronic Principles and Technology** [Taylor & Francis](#) 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. **Principles of Electrical Engineering** [Prentice Hall](#) **Basic Electrical and Electronics Engineering FEC 105 Basic Electrical and Electronics Engineering Engineering Circuit Analysis Understanding Modern Electronics In 24** clear and easily accessible lectures, Professor Wolfson combines his academic expertise and his lifelong vocation as an electronics hobbyist to examine how these remarkable devices work, bypassing much of the higher mathematics without sacrificing functional and theoretical understanding. Whether you're an aspiring engineer, an enthusiastic tinkerer, or simply intellectually curious, this course will demystify the behavior and inner circuitry of electronic devices and inspire you to see technology in a whole new light. **Advanced Electrical Technology 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. **Internet of Things Architecture and Design Principles Internet of Things (IoT)**, emphasizes on the efficient use of internet and wireless network for connecting devices in day-to-day life. It gives a step-by-step explanation of the connecting interface of hardware with software. This classic text is a vital study guide for students to master their IoT skills. **Internet of Things** emphasizes on the efficient use of internet and wireless network for connecting devices in day to day life. It gives a step-by-step explanation of the connecting interface of hardware with software. This classic text is a vital study guide for the students to master their IoT skills. **Seafire vs A6M Zero Pacific Theatre** [Osprey Publishing](#) Products of vastly different design philosophies, the Seafire F III and the A6M Zero were never intended to meet in combat, and never should have. Yet the harsh necessities of war intervened and these two planes were pitted against each other in the last dogfight of World War II, high above the Japanese home lands. The Zero, with its clean design, low weight and high lift, was extremely nimble at low speeds and ideally suited to the job it was intended to do. In contrast, the Spitfire was not designed as a shipboard fighter; it was a short-range interceptor, intended for operations from established airfields and supported by a well stocked infrastructure of spares and qualified maintenance personal. With a different twist on the Duel concept, this book examines these two iconic fighters and their two very different histories; one was 'adapted' for a role it was never intended to carry out, the other was purpose built and proved to be one of the finest fighters of World War II. Using fantastic artwork and intimate first-hand accounts, the author discusses the decline of the Japanese Naval Air Force and its principal fighter, the Zero, in contrast to the British Seafire, as it

overcame its critics to become the best pure carrier interceptor of the war and emerge victorious in the last aerial duel of World War II.