

# Dattu R Joshi Engineering Physics For Free

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## **Semiconductor Devices and Technologies for Future Ultra Low Power Electronics - D.**

Nirmal 2021-12-10

This book covers the fundamentals and significance of 2-D materials and related semiconductor transistor technologies for the next-generation ultra low power applications. It

provides comprehensive coverage on advanced low power transistors such as NCFETs, FinFETs, TFETs, and flexible transistors for future ultra low power applications owing to their better subthreshold swing and scalability. In addition, the text examines the use of field-effect transistors for biosensing applications and

covers design considerations and compact modeling of advanced low power transistors such as NCFETs, FinFETs, and TFETs. TCAD simulation examples are also provided.

**FEATURES** Discusses the latest updates in the field of ultra low power semiconductor transistors Provides both experimental and analytical solutions for TFETs and NCFETs Presents synthesis and fabrication processes for FinFETs Reviews details on 2-D materials and 2-D transistors Explores the application of FETs for biosensing in the healthcare field This book is aimed at researchers, professionals, and graduate students in electrical engineering, electronics and communication engineering, electron devices, nanoelectronics and nanotechnology, microelectronics, and solid-state circuits.

*Engineering Physics* - D. K. Bhattacharya  
2015-08-20

Engineering Physics is designed as a textbook for first year undergraduate engineering

students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.

**Mechanical Properties of Engineered Materials** - Wole Soboyejo 2002-11-20

Featuring in-depth discussions on tensile and compressive properties, shear properties, strength, hardness, environmental effects, and creep crack growth, "Mechanical Properties of Engineered Materials" considers computation of principal stresses and strains, mechanical testing, plasticity in ceramics, metals, intermetallics, and polymers, materials selection for thermal shock resistance, the analysis of failure mechanisms such as fatigue, fracture, and creep, and fatigue life prediction. It is a top-shelf reference for professionals and students in materials, chemical, mechanical, corrosion, industrial, civil, and maintenance engineering;

and surface chemistry.

**Mechanics of Materials** - James M. Gere 1999

This is a revised edition emphasising the fundamental concepts and applications of strength of materials while intending to develop students' analytical and problem-solving skills.

60% of the 1100 problems are new to this edition, providing plenty of material for self-study. New treatments are given to stresses in beams, plane stresses and energy methods.

There is also a review chapter on centroids and moments of inertia in plane areas; explanations of analysis processes, including more motivation, within the worked examples.

*Multimodal Sentiment Analysis* - Soujanya Poria  
2018-10-24

This latest volume in the series, Socio-Affective Computing, presents a set of novel approaches to analyze opinionated videos and to extract sentiments and emotions. Textual sentiment analysis framework as discussed in this book contains a novel way of doing sentiment analysis

by merging linguistics with machine learning. Fusing textual information with audio and visual cues is found to be extremely useful which improves text, audio and visual based unimodal sentiment analyzer. This volume covers the three main topics of: textual preprocessing and sentiment analysis methods; frameworks to process audio and visual data; and methods of textual, audio and visual features fusion. The inclusion of key visualization and case studies will enable readers to understand better these approaches. Aimed at the Natural Language Processing, Affective Computing and Artificial Intelligence audiences, this comprehensive volume will appeal to a wide readership and will help readers to understand key details on multimodal sentiment analysis.

**Power Electronics Handbook** - F. F. Mazda  
2013-10-22

Power Electronics Handbook: Components, Circuits, and Applications is a collection of materials about power components, circuit

design, and applications. Presented in a practical form, theoretical information is given as formulae. The book is divided into three parts. Part 1 deals with the usual components found in power electronics such as semiconductor devices and power semiconductor control components, their electronic compatibility, and protection. Part 2 tackles parts and principles related to circuits such as switches; link frequency chargers; converters; and AC line control, and Part 3 covers the applications for semiconductor circuits. The text is recommended for engineers and electricians who need a concise and easily accessible guide on power electronics.

Semiconductor Optoelectronic Devices - Pallab Bhattacharya 1997

The first true introduction to semiconductor optoelectronic devices, this book provides an accessible, well-organized overview of optoelectronic devices that emphasizes basic principles. Coverage begins with an optional

review of key concepts—such as properties of compound semiconductor, quantum mechanics, semiconductor statistics, carrier transport properties, optical processes, and junction theory—then progress gradually through more advanced topics. The Second Edition has been both updated and expanded to include the recent developments in the field.

**Antibiotic Resistance** - Kateryna Kon  
2016-06-14

Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches discusses up-to-date knowledge in mechanisms of antibiotic resistance and all recent advances in fighting microbial resistance such as the applications of nanotechnology, plant products, bacteriophages, marine products, algae, insect-derived products, and other alternative methods that can be applied to fight bacterial infections.

Understanding fundamental mechanisms of antibiotic resistance is a key step in the discovery of effective methods to cope with

resistance. This book also discusses methods used to fight antibiotic-resistant infection based on a deep understanding of the mechanisms involved in the development of the resistance. Discusses methods used to fight antibiotic-resistant infection based on a deep understanding of mechanisms involved in the development of the resistance Provides information on modern methods used to fight antibiotic resistance Covers a wide range of alternative methods to fight bacterial resistance, offering the most complete information available Discusses both newly emerging trends and traditionally applied methods to fight antibiotic resistant infections in light of recent scientific developments Offers the most up-to-date information in fighting antibiotic resistance Includes involvement of contributors all across the world, presenting questions of interest to readers of both developed and developing countries  
*From Populations to Ecosystems* - Michel Loreau

2010-07-01

The major subdisciplines of ecology--population ecology, community ecology, ecosystem ecology, and evolutionary ecology--have diverged increasingly in recent decades. What is critically needed today is an integrated, real-world approach to ecology that reflects the interdependency of biodiversity and ecosystem functioning. From Populations to Ecosystems proposes an innovative theoretical synthesis that will enable us to advance our fundamental understanding of ecological systems and help us to respond to today's emerging global ecological crisis. Michel Loreau begins by explaining how the principles of population dynamics and ecosystem functioning can be merged. He then addresses key issues in the study of biodiversity and ecosystems, such as functional complementarity, food webs, stability and complexity, material cycling, and metacommunities. Loreau describes the most recent theoretical advances that link the

properties of individual populations to the aggregate properties of communities, and the properties of functional groups or trophic levels to the functioning of whole ecosystems, placing special emphasis on the relationship between biodiversity and ecosystem functioning. Finally, he turns his attention to the controversial issue of the evolution of entire ecosystems and their properties, laying the theoretical foundations for a genuine evolutionary ecosystem ecology. From Populations to Ecosystems points the way to a much-needed synthesis in ecology, one that offers a fuller understanding of ecosystem processes in the natural world.

*Advanced Machining Processes* - Angelos P. Markopoulos 2017-11-23

Modeling and machining are two terms closely related. The benefits of the application of modeling on machining are well known. The advances in technology call for the use of more sophisticated machining methods for the production of high-end components. In turn,

more complex, more suitable, and reliable modeling methods are required. This book pertains to machining and modeling, but focuses on the special aspects of both. Many researchers in academia and industry, who are looking for ways to refine their work, make it more detailed, increase their accuracy and reliability, or implement new features, will gain access to knowledge in this book that is very scarce to find elsewhere.

*Imperfections in Crystals* - Hendrik Gerard Bueren 1960

**Superconductivity and Applications** - Yi-Han Kao 2013-04-17

This Proceedings is a collection of papers presented at the Third Annual Conference on Superconductivity and Applications organized by the New York State Institute on Superconductivity. This year the Conference was held at the Buffalo Hilton Hotel on September 19- 21, 1989, with previous meetings on

September 28-29, 1987, and April 18-20, 1988. As in previous years, this meeting was highly successful, with an attendance of over three hundred researchers participating in lively scientific exchanges and discussions. The high quality of the talks is evident in this Proceedings. The field of high temperature superconductivity has matured considerably since its early days of media frenzy and rapid new discoveries. However, the enthusiasm and pace of research have not slowed down. A much better picture of the nature of high temperature superconductivity, the properties of these new materials and where they may find their eventual use has emerged. Processing techniques, especially thin film deposition, have been perfected nearly to the point of allowing commercial applications. We expect continued phenomenal growth of the field of high temperature superconductivity, both in terms of research and applications for many years to come.

Integral Calculus - P K Mittal 2005-03

This classic book is a part of bestseller series in mathematics by eminent mathematician, Shanti Narayan. It is an exhaustive foundation text on Integral Calculus and primarily caters to the undergraduate courses of B.Sc and BA.

**Proceedings of the International Congress of Mathematicians** - Rajendra Bhatia  
2011-06-06

ICM 2010 proceedings comprise a four-volume set containing articles based on plenary lectures and invited section lectures, the Abel and Noether lectures, as well as contributions based on lectures delivered by the recipients of the Fields Medal, the Nevanlinna, and Chern Prizes. The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress

**International Conference on Computer Networks and Communication Technologies**  
- S. Smys 2019

The book features research papers presented at

the International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2018), offering significant contributions from researchers and practitioners in academia and industry. The topics covered include computer networks, network protocols and wireless networks, data communication technologies, and network security. Covering the main core and specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practices, these proceedings are a valuable resource, for researchers, instructors, students, scientists, engineers, managers, and industry practitioners.

### **Beans 20 Ways** - America's Test Kitchen

2020-04-28

Humble beans are the true MVPs of the kitchen. They have a long shelf life, are packed with protein, and best of all, they taste great in a

wide variety of applications. This collection of 20 foolproof recipes gives beans their due, putting them center stage in recipes such as Ultracreamy Hummus (you've never had homemade hummus this velvety-smooth) and White Bean and Tuna Salad (two pantry-friendly ingredients come together for a dish that's greater than the sum of its parts). We share the secrets to making light and crispy Falafel as well as irresistible soups and sides. Whether you're looking for breakfast inspiration (our recipe for Scrambled Eggs with Pinto Beans and Cotija Cheese delivers tender eggs with a mildly spicy kick), internationally inspired mains such as Palak Dal (Spinach Dal with Cumin and Mustard Seeds) and Tuscan Shrimp and Beans, or hearty vegetarian dishes such as Black Bean Burgers and Meatless "Meat" Sauce with Chickpeas and Mushrooms, this collection gives you 20 great reasons to put beans on the menu.

*The Theory of Machines* - Robery W. Angus 1917

*Science Focus 3* - Greg Rickard 2009

The Science Focus Second Edition is the complete science package for the teaching of the New South Wales Stage 4 and 5 Science Syllabus. The Science Focus Second Edition package retains the identified strengths of the highly successful First Edition and includes a number of new and exciting features, improvements and components.

*Let Us C: Authentic Guide to C PROGRAMMING Language 17th Edition (English Edition)* -

Yashavant Kanetkar 2020-09-04

Learn the hand-crafted notes on C programming Key Features Strengthens the foundations, as a detailed explanation of programming language concepts are given Lucid explanation of the concept Well thought-out, fully working programming examples End-of-chapter exercises that would help you practice the skills learned in the chapter Hand-crafted "KanNotes" at the end of the each chapter that would help the reader remember and revise the concepts covered in

the chapter Focuses on how to think logically to solve a problem Description The new edition of this classic book has been thoroughly revamped, but remains faithful to the principles that have established it as a favourite amongst students, teachers and software professionals round the world. "Simplicity"- that has been the hallmark of this book in not only its previous sixteen English editions, but also in the Hindi, Gujrati, Japanese, Korean, Chinese and US editions. This book doesn't assume any programming background. It begins with the basics and steadily builds the pace so that the reader finds it easy to handle advanced topics towards the end of the book. What will you learn C Instructions Decision Control Instruction, Loop Control Instruction, Case Control Instruction Functions, Pointers, Recursion Data Types, The C Preprocessor Arrays, Strings Structures, Console Input/Output, File Input/Output Who this book is for Students, Programmers, researchers, and software developers who wish

to learn the basics of C++ programming language. Table of Contents 1. Getting Started 2. C Instructions 3. Decision Control Instruction 4. More Complex Decision Making 5. Loop Control Instruction 6. More Complex Repetitions 7. Case Control Instruction 8. Functions 9. Pointers 10. Recursion 11. Data Types Revisited 12. The C Preprocessor 13. Arrays 14. Multidimensional Arrays 15. Strings 16. Handling Multiple Strings 17. Structures 18. Console Input/Output 19. File Input/Output 20. More Issues In Input/Output 21. Operations On Bits 22. Miscellaneous Features 23. Interview FAQs Appendix A- Compilation and Execution Appendix B- Precedence Table Appendix C- Chasing the Bugs Appendix D- ASCII Chart Periodic Tests I to IV, Course Tests I, II Index About the Authors Through his books and Quest Video Courses on C, C++, Java, Python, Data Structures, .NET, IoT, etc. Yashavant Kanetkar has created, molded and groomed lacs of IT careers in the last three decades. Yashavant's books and Quest

videos have made a significant contribution in creating top-notch IT manpower in India and abroad. Yashavant's books are globally recognized and millions of students/professionals have benefitted from them. Yashavant's books have been translated into Hindi, Gujarati, Japanese, Korean and Chinese languages. Many of his books are published in India, USA, Japan, Singapore, Korea and China. Yashavant is a much sought after speaker in the IT field and has conducted seminars/workshops at TedEx, IITs, IIITs, NITs and global software companies. Yashavant has been honored with the prestigious "Distinguished Alumnus Award" by IIT Kanpur for his entrepreneurial, professional and academic excellence. This award was given to top 50 alumni of IIT Kanpur who have made a significant contribution towards their profession and betterment of society in the last 50 years. His Linkedin profile: [linkedin.com/in/yashavant-kanetkar-9775255](https://www.linkedin.com/in/yashavant-kanetkar-9775255)

Semiconductor Optoelectronics - Jasprit Singh  
1995

**Applied Physics for Engineers** - Mehta Neeraj  
2011-07-30

This book is intended as a textbook for the first-year undergraduate engineering students of all disciplines. Key features: simple and clear diagrams throughout the book help students in understanding the concepts clearly; numerous in-chapter solved problems, chapter-end unsolved problems (with answers) and review questions assist students in assimilating the theory comprehensively; a large number of objective type questions at the end of each chapter help students in testing their knowledge of the theory.

Towards Smart World - Lavanya Sharma  
2020-12-13

Towards Smart World: Homes to Cities Using Internet of Things provides an overview of basic concepts from the rising of machines and

communication to IoT for making cities smart, real-time applications domains, related technologies, and their possible solutions for handling relevant challenges. This book highlights the utilization of IoT for making cities smart and its underlying technologies in real-time application areas such as emergency departments, intelligent traffic systems, indoor and outdoor securities, automotive industries, environmental monitoring, business entrepreneurship, facial recognition, and motion-based object detection. Features The book covers the challenging issues related to sensors, detection, and tracking of moving objects, and solutions to handle relevant challenges. It contains the most recent research analysis in the domain of communications, signal processing, and computing sciences for facilitating smart homes, buildings, environmental conditions, and cities. It presents the readers with practical approaches and future direction for using IoT in smart cities and

discusses how it deals with human dynamics, the ecosystem, and social objects and their relation. It describes the latest technological advances in IoT and visual surveillance with their implementations. This book is an ideal resource for IT professionals, researchers, undergraduate or postgraduate students, practitioners, and technology developers who are interested in gaining deeper knowledge and implementing IoT for smart cities, real-time applications areas, and technologies, and a possible set of solutions to handle relevant challenges. Dr. Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP, Noida, India. She has been a recipient of several prestigious awards during her academic career. She is an active nationally recognized researcher who has published numerous papers in her field. *Basic Computer Engineering Precise* - WILEY. 2012-10

Industrial Metrology - Sunil Raykar 2018-01-11

Written in simple language. Useful for student of mechanical, production, manufacturing and automobile engineering as well as polytechnic students. Covers almost all measuring instrument used on shop floor. Detailed description instrument with a sketch and actual image.

**Archie 3000** - Archie Superstars 2019-03-19  
ARCHIE 3000 is the complete collection featuring the classic series. This is presented in the new higher-end format of Archie Comics Presents, which offers 200+ pages at a value while taking a design cue from successful all-ages graphic novels. Travel to the 31st Century with Archie and his friends! In the year 3000, Riverdale is home to hoverboards, intergalactic travel, alien life and everyone's favorite space case, Archie! Follow the gang as they encounter detention robots, teleporters, wacky fashion trends and much more. Will the teens of the future get in as much trouble as the ones from our time?

**Pulse and Digital Circuits** - Jacob Millman

1956

**Introduction to Crystallography** - Frank Hoffmann 2020-07-31

This book invites you on a systematic tour through the fascinating world of crystals and their symmetries. The reader will gain an understanding of the symmetry of external crystal forms (morphology) and become acquainted with all the symmetry elements needed to classify and describe crystal structures. The book explains the context in a very vivid, non-mathematical way and captivates with clear, high-quality illustrations. Online materials accompany the book; including 3D models the reader can explore on screen to aid in the spatial understanding of the structure of crystals. After reading the book, you will not only know what a space group is and how to read the International Tables for Crystallography, but will also be able to interpret crystallographic specifications in

specialist publications. If questions remain, you also have the opportunity to ask the author on the book's website.

**Foundations of Engineering Acoustics** - Frank J. Fahy 2000-09-12

Foundations of Engineering Acoustics takes the reader on a journey from a qualitative introduction to the physical nature of sound, explained in terms of common experience, to mathematical models and analytical results which underlie the techniques applied by the engineering industry to improve the acoustic performance of their products. The book is distinguished by extensive descriptions and explanations of audio-frequency acoustic phenomena and their relevance to engineering, supported by a wealth of diagrams, and by a guide for teachers of tried and tested class demonstrations and laboratory-based experiments. Foundations of Engineering Acoustics is a textbook suitable for both senior undergraduate and postgraduate courses in

mechanical, aerospace, marine, and possibly electrical and civil engineering schools at universities. It will be a valuable reference for academic teachers and researchers and will also assist Industrial Acoustic Group staff and Consultants. Comprehensive and up-to-date: broad coverage, many illustrations, questions, elaborated answers, references and a bibliography Introductory chapter on the importance of sound in technology and the role of the engineering acoustician Deals with the fundamental concepts, principles, theories and forms of mathematical representation, rather than methodology Frequent reference to practical applications and contemporary technology Emphasizes qualitative, physical introductions to each principal as an entrée to mathematical analysis for the less theoretically oriented readers and courses Provides a 'cook book' of demonstrations and laboratory-based experiments for teachers Useful for discussing acoustical problems with non-expert

clients/managers because the descriptive sections are couched in largely non-technical language and any jargon is explained Draws on the vast pedagogic experience of the writer Advanced Engineering Mathematics, 22e - Dass H.K.

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

*Hav* - Jan Morris 2011-08-30

A New York Review Books Original *Hav* is like no place on earth. Rumored to be the site of Troy, captured during the crusades and recaptured by Saladin, visited by Tolstoy, Hitler,

Grace Kelly, and Princess Diana, this Mediterranean city-state is home to several architectural marvels and an annual rooftop race that is a feat of athleticism and insanity. As Jan Morris guides us through the corridors and quarters of Hav, we hear the mingling of Italian, Russian, and Arabic in its markets, delight in its famous snow raspberries, and meet the denizens of its casinos and cafés. When Morris published *Last Letters from Hav* in 1985, it was short-listed for the Booker Prize. Here it is joined by *Hav of the Myrmidons*, a sequel that brings the story up-to-date. Twenty-first-century Hav is nearly unrecognizable. Sanitized and monetized, it is ruled by a group of fanatics who have rewritten its history to reflect their own blinkered view of the past. Morris's only novel is dazzlingly sui-generis, part erudite travel memoir, part speculative fiction, part cautionary political tale. It transports the reader to an extraordinary place that never was, but could well be.

**Dora Helps Diego! (Dora the Explorer) -**

Nickelodeon Publishing 2014-02-18

Baby Jaguar is missing. Read along with Dora as she looks for her friend!

[The Aryan Debate](#) - Thomas R. Trautmann  
2007-09-27

Part of the prestigious Debate series, this book brings together a selection of pioneering essays. The introduction spells out the extremely topical Aryan debate. The central question behind this selection is, did the Sanskrit-speaking Aryans enter India from the Northwest in 1500 BC, or were they indigenous to India and identical with the people who inhabited the Indus Valley between 2800 and 1500 BC.

**Completely Positive Matrices** - Abraham Berman 2003

A real matrix is positive semidefinite if it can be decomposed as  $A = BBOC$ . In some applications the matrix B has to be elementwise nonnegative. If such a matrix exists, A is called completely positive. The smallest number of columns of a nonnegative matrix B such that  $A = BBOC$  is

known as the cp- rank of A . This invaluable book focuses on necessary conditions and sufficient conditions for complete positivity, as well as bounds for the cp- rank. The methods are combinatorial, geometric and algebraic. The required background on nonnegative matrices, cones, graphs and Schur complements is outlined. Contents: Preliminaries: Matrix Theoretic Background; Positive Semidefinite Matrices; Nonnegative Matrices and M - Matrices; Schur Complements; Graphs; Convex Cones; The PSD Completion Problem; Complete Positivity: Definition and Basic Properties; Cones of Completely Positive Matrices; Small Matrices; Complete Positivity and the Comparison Matrix; Completely Positive Graphs; Completely Positive Matrices Whose Graphs are Not Completely Positive; Square Factorizations; Functions of Completely Positive Matrices; The CP Completion Problem; CP Rank: Definition and Basic Results; Completely Positive Matrices of a Given Rank; Completely Positive Matrices of a

Given Order; When is the CP-Rank Equal to the Rank?. Readership: Upper level undergraduates, graduate students, academics and researchers interested in matrix theory."

**Engineering Physics** - DATTU R. JOSHI 2010

**Engineering Fluid Dynamics 2018** - Bjørn H. Hjertager 2020-01-15

"Engineering Fluid Dynamics 2018". The topic of engineering fluid dynamics includes both experimental as well as computational studies. Of special interest were submissions from the fields of mechanical, chemical, marine, safety, and energy engineering. We welcomed both original research articles as well as review articles. After one year, 28 papers were submitted and 14 were accepted for publication. The average processing time was 37.91 days. The authors had the following geographical distribution: China (9); Korea (3); Spain (1); and India (1). Papers covered a wide range of topics, including analysis of fans, turbines, fires in

tunnels, vortex generators, deep sea mining, as well as pumps.

**Introduction to Quasicrystals** - Marko Jaric  
2012-12-02

Aperiodicity and Order, Volume 1: Introduction to Quasicrystals deals with various aperiodic types of order in quasicrystals as well as the basic physics of quasicrystalline order and materials. Questions about the nature of order and the order of nature are addressed. This volume is comprised of six chapters; the first of which introduces the reader to icosahedral coordination in metallic crystals, with emphasis on the structural principles of metallic materials that are crystalline and may be expected to carry over to aperiodic materials. The discussion then turns to short- and long-range icosahedral orders in glass, crystals, and quasicrystals. The origins of icosahedral order are explained, and the physical properties of icosahedral materials are described. The chapters that follow focus on the metallurgy of quasicrystals, the

crystallography of ideal icosahedral crystals, and stability and deformations in quasicrystalline solids. The book concludes with a discussion on symmetry, elasticity, and hydrodynamics in quasiperiodic structures. A pedagogical review of continuum elastic-hydrodynamic theory for quasicrystals and related structures is presented. This book is intended primarily as an introduction for new students in the field and as a reference for active researchers.

**A Textbook of Engineering Physics** - M N Avadhanulu 1992

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

**Physics for Engineers** - M. R. Srinivasan 2009

*Corporation Finance* - Kenneth Field 1938

Basic Electrical and Electronics Engineering: -  
S.K. Bhattacharya  
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