

Gaur Gupta Engineering Physics

Plant Viruses: Evolution and Management
Basic and Applied Aspects of Biotechnology
Applied Physics for Engineers
Physics and Engineering of New Materials
Concepts of Modern Engineering Physics
Legumes in the Omic Era
Basic Electronics
A Textbook of Engineering Physics (Kerala)
A Textbook of Engineering Physics
The Handbook of Photonics
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Engineering Physics
Physics of Semiconductor Devices
Engineering Physics-IMolecular Biology of Bacteria
FINANCIAL DERIVATIVES
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The Physics of Semiconductor Devices
Comprehensive Semiconductor Science and Technology
Climate Change and Plant Abiotic Stress Tolerance
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Plant Viruses: Evolution and Management

Basic and Applied Aspects of Biotechnology

This book explores the journey of biotechnology, searching for new avenues and noting the impressive accomplishments to date. It has harmonious blend of facts, applications and new ideas. Fast-paced biotechnologies are broadly applied and are being continuously explored in areas like the environmental, industrial, agricultural and medical sciences. The sequencing of the human genome has opened new therapeutic opportunities and enriched the field of medical biotechnology while analysis of biomolecules using proteomics and microarray technologies along with the simultaneous discovery and development of new modes of detection are paving the way for ever-faster and more reliable diagnostic methods. Life-saving bio-pharmaceuticals are being churned out at an amazing rate, and the unraveling of biological processes has facilitated drug designing and discovery processes. Advances in regenerative medical technologies (stem cell therapy, tissue engineering, and gene therapy) look extremely promising, transcending the limitations of all existing fields and opening new dimensions for characterizing and combating diseases.

Applied Physics for Engineers

Physics and Engineering of New Materials

Semiconductors are at the heart of modern living. Almost everything we do, be it work, travel, communication, or entertainment, all depend on some feature of semiconductor technology. Comprehensive Semiconductor Science and Technology captures the breadth of this important field, and presents it in a single source to the large audience who study, make, and exploit semiconductors. Previous attempts at this achievement have been abbreviated, and have omitted important topics. Written and Edited by a truly international team of experts, this work delivers an objective yet cohesive global review of the semiconductor world. The work is divided into three sections. The first section is concerned with the fundamental physics of semiconductors, showing how the electronic features and the lattice dynamics change drastically when systems vary from bulk to a low-dimensional structure and further to a nanometer size. Throughout this section there is an emphasis on the full understanding of the underlying physics. The second section deals largely with the transformation of the conceptual framework of solid state physics into devices and systems which require the growth of extremely high purity, nearly defect-free bulk and epitaxial materials. The last section is devoted to exploitation of the knowledge described in the

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previous sections to highlight the spectrum of devices we see all around us. Provides a comprehensive global picture of the semiconductor world Each of the work's three sections presents a complete description of one aspect of the whole Written and Edited by a truly international team of experts

Concepts of Modern Engineering Physics

Legumes in the Omic Era

Basic Electronics

RNAi technology is used for large-scale screens that systematically shut down each gene in the cell, which can help identify the components necessary for a particular cellular process or an event such as cell division. Exploitation of the pathway is also a promising tool in biotechnology and medicine. Introducing new technology in the study of RNA

A Textbook of Engineering Physics (Kerala)

A Textbook of Engineering Physics

The Handbook of Photonics

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Legumes in the Omic Era provides a timely review of recent advances in legume genomics research and application. In this post-genomic era enormous amount of biological information is available which could be of huge potential use for crop improvement applications. This aspect of genomics assisted plant breeding is focused throughout the book for all the important grain legume crops. Role of functional genomics and importance of bioinformatics tools in present day genomics and molecular breeding research is also discussed in detail. Use of molecular tools for nutritional fortification of grain legume is briefly presented. A chapter also been contributed on fungal disease resistance to elucidate potential application of genomic tools in molecular breeding of grain legume species. The book contains fifteen chapters contributed by 50 scientists from different countries who are actively involved in analyzing and improving particular legume genome. This book will serve as reference resource to legumes researchers for use of genome information in improvement of major legume crops. Dr Sanjeev Gupta is Principal Scientist/Project Coordinator-All India Coordinated Research Project on Vigna Crops at Indian Institute of Pulses Research (IIPR), Kanpur. He has more than two decades of research experience in grain legume breeding and developed a number of high yielding cultivars in grain legumes. He is authored numerous research papers published in peer-reviewed journals and edited several books in plant breeding aspects. He was the Organizing Secretary of the International Grain Legume Conference, 2009 held in the Indian Institute of Pulses Research, Kanpur, India. He has travelled across the continents to present his

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research several times. He is recipient of several awards for his research and literary contributions Dr. Nagasamy Nadarajan is the Director of the Indian Institute of Pulses Research (IIPR), Kanpur. He has more than three decades of teaching and research experience and developed more than fifteen legume and cereal cultivars. He has to his credits more than 200 peer-reviewed research publications. He has guided several graduate students for Masters and Doctoral degrees in food legume breeding and genetics research. He has authored a book in biometrics which is one of the most popular books among the agriculture graduate students in India. He is the recipient of three international and six national awards and honours for his outstanding contributions Mr. Debjyoti Sen Gupta is the ICAR International Fellow and Ph.D. candidate at North Dakota State University (NDSU), Fargo, USA. Recently, he visited Department of Crop and Soil Sciences, Washington State University, Pullman, USA for high throughput genotyping work. Before joining at NDSU he was serving as the Scientist in the Indian Institute of Pulses Research (IIPR). He has authored several research articles, review articles and book chapters in the peer-reviewed journals and books from reputed publishers like Springer, CABI etc. He is recipient of several fellowships like CSIR-JRF, New Delhi; ICAR-JRF, New Delhi throughout his graduate study programs.

Physics for Engineers

A Txtbook of Engineering Physics is written with two distinct objectives: to provide a single source of

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information for engineering undergraduates of different specializations and provided 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.

Engineering Physics

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency.

Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each

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section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference Chapter 4: Diffraction Unit 2: Modern Physics Chapter 5: Relativity Chapter 6: Photons and Matter Waves Chapter 7: Quantum Mechanics Chapter 8: Atomic Structure Chapter 9: Condensed Matter Physics Chapter 10: Nuclear Physics Chapter 11: Particle Physics and Cosmology

Physics of Semiconductor Devices

This highly acclaimed text, designed for postgraduate students of management, commerce, and financial studies, has been enlarged and updated in its second edition by introducing new chapters and topics with its focus on conceptual understanding based on practical examples. Each derivative product is illustrated with the help of diagrams, charts, tables and solved problems. Sufficient exercises and review questions help students to practice and test their knowledge. Since this comprehensive text includes latest developments in the field, the students pursuing CA, ICWA and CFA will also find this book of immense value, besides management and commerce students. THE NEW EDITION INCLUDES • Four new chapters on 'Forward Rate Agreements', 'Pricing and Hedging of Swaps', 'Real Options', and 'Commodity

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Derivatives Market' • Substantially revised chapters—'Risk Management in Derivatives', 'Foreign Currency Forwards', and 'Credit Derivatives' • Trading mechanism of Short-term interest rate futures and Long-term interest rate futures • Trading of foreign currency futures in India with RBI Guidelines • Currency Option Contracts in India • More solved examples and practice problems • Separate sections on 'Swaps' and 'Other Financial Instruments' • Extended Glossary

Engineering Physics-I

Molecular Biology has proved to be one of the more fruitful technological approaches to science, being both very powerful and able to generate valuable intellectual property. This book aims to present examples in the application of molecular biology and genetic engineering in bacteriology. The book discusses the diverse roles of bacteria in ecosystems and it gives significant contributions from biotechnology approaches.

Molecular Biology of Bacteria

In this ready reference, a global team of experts comprehensively cover molecular and cell biology-based approaches to the impact of increasing global temperatures on crop productivity. The work is divided into four parts. Following an introduction to the general challenges for agriculture around the globe due to climate change, part two discusses how the resulting increase of abiotic stress factors can be

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dealt with. The third part then outlines the different strategies and approaches to address the challenge of climate change, and the whole is rounded off by a number of specific examples of improvements to crop productivity. With its forward-looking focus on solutions, this book is an indispensable help for the agro-industry, policy makers and academia.

FINANCIAL DERIVATIVES

This book is intended as a textbook for the first-year undergraduate engineering students of all disciplines. The text, written in a student-friendly manner, covers a wide range of topics of engineering interest both from the domains of applied and modern physics. It is meticulously tailored to cover the syllabi needs of almost all the Indian universities and institutes. With its exhaustive treatment of different topics in one volume, it relieves the engineering students of the arduous task of referring to several books. Besides engineering students, this book will be equally useful to the BSc (Physics) students of different universities. **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.

Textbook Of Engineering Physics

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Although Concepts of Modern Physics was the first book covering the syllabi of punjab technical university,Jalandhar and it was accepted wholeheartedly by students and teachers alike.However,due to the repeated changes of sullabi of P.T.U. as it being a new university,the book had to be revised and some of the chapters become redundant as these were replaced by new topics.Though the book was revised with the additional chapters,the discarded chapters also formed the part of the book.

Engineering Mechanics : (As Per The New Syllabus, B.Tech. 1 Year Of U.P. Technical University)

Reflecting changes in the field in the ten years since the publication of the first edition, The Handbook of Photonics, Second Edition explores recent advances that have affected this technology. In this new, updated second edition editor Mool Gupta is joined by John Ballato, strengthening the handbook with their combined knowledge and the continued contributions of world-class researchers. New in the Second Edition: Information on optical fiber technology and the economic impact of photonics Coverage of emerging technologies in nanotechnology Sections on optical amplifiers, and polymeric optical materials The book covers photonics materials, devices, and systems, respectively. An introductory chapter, new to this edition, provides an overview of photonics technology, innovation, and economic development. Resting firmly on the foundation set by the first

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edition, this new edition continues to serve as a source for introductory material and a collection of published data for research and training in this field, making it the reference of first resort.

The Physics of Semiconductor Devices

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now

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Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others

Comprehensive Semiconductor Science and Technology

This book presents the majority of the contributions to the Tenth German-Vietnamese Seminar on Physics and Engineering (GVS10) that took place in the Gustav- Stresemann-Institut (GSI) in Bonn from June 6 to June 9, 2007. In the focus of these studies are the preparation and basic properties of new material systems, related investigation methods, and practical applications. Accordingly the sections in this book are entitled electrons: transport and confinement, low-dimensional systems, magnetism, oxidic materials, organic films, new materials, and methods. The series of German-Vietnamese seminars was initiated and sponsored by the Gottlieb Daimler- and Karl Benz -Foundation since 1998 and took place alternately in both countries. These bilateral meetings brought together top-notch senior and junior Vietnamese scientists with German Scientists and stimulated many contacts and co-operations. Under the general title "Physics and Engineering" the programs covered, in the form of keynote-lectures, oral presentations and posters, experimental and theoretical cutting-edge material-physics oriented topics. The majority of the contributions was dealing with modern topics of material science, particularly nanoscience, which is a research field of high importance also in Vietnam. Modern material science allows a quick transfer of research results to technical applications, which is

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very useful for fast developing countries like Vietnam. On the other hand, the seminars took profit from the strong cross-fertilization of the different disciplines of physics. This book is dedicated to the tenth anniversary of the seminars and nicely shows the scientific progress in Vietnam and the competitive level reached.

Climate Change and Plant Abiotic Stress Tolerance

This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

RNAi Technology

Interference | Diffraction | Polarization | Lasers |
Fibreoptics | Simple Harmonic Motion | Wave Motion |
Ultrasonics And Acoustics | X-Rays |
Electronic configuration | General Properties Of The
Nucleus | Nuclear Models | Natural Radioactivity |
Nuclear reactions And Artificial Radioactivity | Nuclear
Fission And fusion | Crystal Structure | Band Theory Of

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Solids| Metals, Insulators And Semiconductors |
Magnetic And dielectric Properties Of Materials |
Maxwell's Equations| Matter Waves And Uncertainty
Principle | Quantum theory | Super-Conductivity |
Statistics And Distribution laws| Scalar And Vector
Fields

Engg Mathematics - Au 2011

Thoroughly reviews our current understanding of
malarial biology Explores the subject with insights
from post-genomic technologies Looks broadly at the
disease, vectors of infection, and treatment and
prevention strategies A timely publication with
chapters written by global researchers leaders

Engineering Physics

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.

Advances in Malaria Research

This book focuses on the evolution of plant viruses,
their molecular classification, epidemics and
management, covering topics relating to evolutionary
mechanisms, viral ecology and emergence,
appropriate analysis methods, and the role of

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evolution in taxonomy. The currently emerging virus species are increasingly becoming a threat to our way of life, both economically and physically. Plant viruses are particularly significant as they affect our food supply and are capable of rapidly spreading to new plant species. In basic research, plant viruses have become useful models to analyze the molecular biology of plant gene regulation and cell-cell communication. The small size of DNA genome of viruses possesses minimal coding capacity and replicates in the host cell nucleus with the help of host plant cellular machinery. Thus, studying virus cellular processes provides a good basis for explaining DNA replication, transcription, mRNA processing, protein expression and gene silencing in plants. A better understanding of these cellular processes will help us design antiviral strategies for plants. The book provides in-depth information on plant virus gene interactions with hosts, localization and expression and the latest advances in our understanding of plant virus evolution, their responses and crop improvement. Combining characterization of plant viruses and disease management and presenting them together makes it easy to compare all aspects of resistance, tolerance and management strategies. As such, it is a useful resource for molecular biologists and plant virologists alike.

University Physics

The 10th edition of Halliday, Resnick and Walkers Fundamentals of Physics provides the perfect solution

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for teaching a 2 or 3 semester calculus-based physics course, providing instructors with a tool by which they can teach students how to effectively read scientific material, identify fundamental concepts, reason through scientific questions, and solve quantitative problems. The 10th edition builds upon previous editions by offering new features designed to better engage students and support critical thinking. These include NEW Video Illustrations that bring the subject matter to life, NEW Vector Drawing Questions that test students conceptual understanding, and additional multimedia resources (videos and animations) that provide an alternative pathway through the material for those who struggle with reading scientific exposition. WileyPLUS sold separately from text.

Modern Engineering Physics

Advanced level physics

Engineering Physics

Textbook Of Engineering Physics -

This book is intended for students of engineering and science; aiming to develop understanding concepts of physics and related analytical skills. This book is structured to cover key aspects of the subject used in engineering and scientific applications. Entitled

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“Applied Physics for Engineers and undergraduate Students”, our journey starts from crystals and ends at microscopic world called nanotechnology. Applied Physics is very vast subject and hence important topics have been shortlisted and included in this book. The concepts are explained in very lucid manner and the contents are optimised so that students will find it easy to digest. Language used is simple and self explanatory. The book is in the question and answer format indicating the marking scheme of all Indian Universities. The problems have been graded according to their difficulty level. Illustrative examples are provided in the text to clarify the concepts further. Fully solved problems appear at the end of every chapter. Formula sheet helps in summarising the complete topic including quick reference formulas needed for solving problems.

Introduction to Special Relativity

Engineering Physics

The book gives an exhaustive exposition of the fundamental concepts, techniques and devices in Basic Electronics Engineering. The book covers the basic course in basic electronics of almost all the Indian technical universities and some foreign universities as well. It is particularly well suited undergraduate students of all Engineering disciplines. Diploma students of EEE and ECE will find useful too. Basic Electronics is designed as the one-stop solution for those attempting to teach as well as study a

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course on Basic Electronics. The carefully developed pedagogy will help the instructor pick thought-provoking questions for tutorials and examinations, as well as allow plenty of practice for the students.

Salient Features • Approach modular, and exposition of subject matter through illustrations • Block-diagrams and circuit diagrams used aplenty to enhance understanding • Pedagogy count and features: • Solved Examples- 136 • MCQs- 189 • Review Questions- 235 • Problems- 163 • Diagrams- 409

Silica-based Organic-inorganic Hybrid Nanomaterials: Synthesis, Functionalization And Applications In The Field Of Catalysis

Currently the field of nanocatalysis is undergoing many exciting developments and the design of silica-based organic-inorganic hybrid nanocatalysts is a key focus of the researchers working in this field. This book aims to present a succinct overview of the recent research progress directed towards the fabrication of silica-based organic-inorganic hybrid catalytic systems encompassing the key advantages of silica nanoparticles and silica-coated magnetic nanoparticles in an integrated manner. Featuring comprehensive descriptions of almost all approaches utilized for the synthesis of nanomaterials including some latest techniques such as flow and microwave-assisted synthesis that enable large-scale synthesis, it proves useful not only to academics but also industrialists. It also includes a systematic discussion

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on the vital characterization techniques employed for authenticating the structure of these. The title also offers an enormous amount of knowledge about the fusion of nanotechnology with green chemistry that strives to meet the scientific challenges of protecting human health and the environment.

Engineering Physics (Annual Pattern)

The purpose of this workshop is to spread the vast amount of information available on semiconductor physics to every possible field throughout the scientific community. As a result, the latest findings, research and discoveries can be quickly disseminated. This workshop provides all participating research groups with an excellent platform for interaction and collaboration with other members of their respective scientific community. This workshop's technical sessions include various current and significant topics for applications and scientific developments, including • Optoelectronics • VLSI & ULSI Technology • Photovoltaics • MEMS & Sensors • Device Modeling and Simulation • High Frequency/ Power Devices • Nanotechnology and Emerging Areas • Organic Electronics • Displays and Lighting Many eminent scientists from various national and international organizations are actively participating with their latest research works and also equally supporting this mega event by joining the various organizing committees.

Proceedings of Seventh International Conference on Bio-Inspired Computing:

Theories and Applications (BIC-TA 2012)

APPLIED PHYSICS

The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IIITM Gwalior, India. These research papers provide the latest developments in the broad area of "Computational Intelligence". The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques.

Fundamentals of Mathematical Statistics

Physics For Engineers Is A Text Book For Students Studying A Course In Engineering. The Book Has Been Written According To The Syllabi Prescribed In The Various Universities Of Karnataka. But It Can Be Profitably Used By The Students Of Other Indian Universities As Well. Engineering Is Generally Regarded As Applied Physics. It Is The Purpose Of The Book To Present The Principles And Concepts Of Physics As Relevant To An Engineer. The Topics Covered In The Book Are Drawn From Acoustics, Optics, Solid State Physics, Materials Science, Heat, Thermodynamics, Electricity And Magnetism. Some Of The Salient Features Of The Book Are: * Lucid Style * Clarity In The Presentation Of Concepts * Contains

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Numerous Problems And Solved Examples * Has More Than 300 Figures.

Fundamentals of Physics

This book gives an excellent introduction to the theory of special relativity. Professor Resnick presents a fundamental and unified development of the subject with unusually clear discussions of the aspects that usually trouble beginners. He includes, for example, a section on the common sense of relativity. His presentation is lively and interspersed with historical, philosophical and special topics (such as the twin paradox) that will arouse and hold the reader's interest. You'll find many unique features that help you grasp the material, such as worked-out examples, summary tables, thought questions and a wealth of excellent problems. The emphasis throughout the book is physical. The experimental background, experimental confirmation of predictions, and the physical interpretation of principles are stressed. The book treats relativistic kinematics, relativistic dynamics, and relativity and electromagnetism and contains special appendices on the geometric representation of space-time and on general relativity. Its organization permits an instructor to vary the length and depth of his treatment and to use the book either with or following classical physics. These features make it an ideal companion for introductory courses.

International Books in Print

Directory

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

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