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KEY=ENGINEERING - GEMMA CARTER

Concepts of Modern Engineering Physics

S. Chand Publishing *Althought Concepts of Modern Physics was the first book covering the syllabi of punjab technical university,Jalandhar and it was accepted whole-heartedly 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.*

Modern Engneering Physics

S. Chand Publishing *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 syllabii 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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A Textbook of Engineering Physics (Kerala)

S. Chand Publishing *Interference | Diffraction | Polarization | Lasers | Fibreoptics | Simple Harmonic Motion | Wave Motion| Ultrasonics And Acoustics | X-Rays | Electronicconfiguration | General Properties Of The Nucleus| Nuclear Models | Natural Radioactivity | Nuclearreactions And Artificial Radioactivity | Nuclear Fission Andfusion | Crystal Structure | Band Theory Of Solids| Metals, Insulators And Semiconductors | Magnetic Anddielectric Properties Of Materials | Maxwell□S Equations| Matter Waves And Uncertainty Principle | Quantumtheory | Super-Conductivity | Statistics And Distributionlaws| Scalar And Vector Fields*

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Principle of Engineering Physics II Sem

S. Chand Publishing *The book is present form is due to the outcome of excellent received for the Author's Book "Modern Engineering Physics" which is prescribed in M.D. University, Rohtak and Kurushetra university and other universities of Haryana. In order to make the book more useful and strictly as per the syllabi of Haryana Universities, most of the topics have been revised*

Gurus of Modern Yoga

Oxford University Press *Gurus of Modern Yoga explores the contributions that individual gurus have made to the formation of the practices and discourses of yoga in today's world.*

Essentials of Engineering Physics (RTU)

S. Chand Publishing *For the Students of B.E./B.Tech.of Rajasthan Technical University, Kota (Rajasthan).Many topics have been rearranged and many more examples have been included to make the various articles and examples more lucid and care has been taken to include all the examples that have been set in various university examinations.*

A Textbook of Engineering Physics (Orissa)

S. Chand Publishing *Volume □ I: Simple Harmonic Motion | Wave Motion| Interference | Diffraction | Polarization | Scalar And Vector Fields | Electromagnetism | Maxwell'S Equation| Spectroscopy | Matter Waves And Uncertainty Principle| Particle Properties Of Radiation | Quantum Mechanics|Volume□Ii: Particle Accelerators | Radioactivity| Crystal Structure | Band Theory Of Solids | Metals, Insulators And Semiconductors | Super-Conductivity| Lasers | Fibre Optics*

A Textbook of Workshop Technology

S. Chand Publishing *A Textbook of workshop Technology(Manufacturing Processes)to the students of degree and diploma of all the Indian and foreign universities.The object of this book is to present the subject matter in a most concise,compact,to the point and lucid manner.While writing the book,we have constantly kept in mind the various requirements of the students.No effort has been spared to enrich the book with simple language and self-explanatory diagrams.Every care has been taken not to make the book voluminous,as the students have also to face other subjects of equal importance.*

Phonons in Nanostructures

Cambridge University Press *This book focuses on the theory of phonon interactions in nanoscale structures with particular emphasis on modern electronic and optoelectronic devices. The continuing progress in the fabrication of semiconductor nanostructures with lower dimensional features has led to devices with enhanced functionality and even novel devices with new operating principles. The critical role of phonon effects in such semiconductor devices is well known. There is therefore a great need for a greater awareness and understanding of confined phonon effects. A key goal of this book is to describe tractable models of confined phonons and how these are applied to calculations of basic properties and phenomena of semiconductor heterostructures. The level of presentation is appropriate for undergraduate and graduate students in physics and engineering with some background in quantum mechanics and solid state physics or devices. A basic understanding of electromagnetism and classical acoustics is assumed.*

Tribology in Industries

S. Chand Publishing *A Textbook-cum-reference book for Undergraduate, Graduate and Postgraduate students of Mechanical, Electrical, Maintenance and Production Engineering disciplines. This book would also be of immensehelp to various practising engineers, technologists, managers and supervisiors engaged in the maintenance, operation and upkeep of the different machines, equipments, systems and plants of various industries.*

Atomic Physics

S. Chand Publishing *the book has been revised to include the postgraduate physics sylabi of indian Universities in addition to the undergraduate honours syllabi covered in the previous edition.Apart from the new addition made in the existing chapters have been added in this edition to deal with the quantum mechanical theories of atomic and molecular structure.*

Introduction to Engineering Physics For U.P.

S. Chand Publishing *Unit 1: Relativity And InterferenceTheory Of RelativityInterference Unit 2: Diffraction And PolarizationDiffractionPolarizationUnit 3: Fields And ElectrostaticsScalar And Vector FieldsElectric Fields And Gauss'S LawMaxwell'S Equations Unit 4: Magnetic Properties Of Materials And X-RaysMagnetic Properties Of MaterialsX-Rays And Compton Effect Unit 5: Quantum Theory And LasersMatter Waves And Uncertainty PrincipleQuantum TheoryLasersModel Test Papers*

Principle of Engineering Physics Ist Sem

S. Chand Publishing *For B.E./B.Tech. students of Maharishiu Dayanand University (MDU) and Kurushetra University, Kurushetra and other universities of Haryana. Many topics have been re-arranged and many more examples have been included to make the various articles and examples more lucid and care has been taken to include all the examples that have been set in various university examinations.*

A TEXTBOOK OF ENGINEERING CHEMISTRY

S. Chand Publishing *Any good text book,particularly that in the fast changing fields such as engineering & technology,is not only expected to cater to the current curricular requirments of various institutions but also should provied a glimplse towards the latest developments in the concerned subject and the relevant disciplines.It should guide the periodic review and updating of the curriculum.*

Publisher's Monthly

Introduction to Enginering Physics Vol-2 (U.P.Tech.Uni.Lucknow)

S. Chand Publishing *For BE/BTech /B Arch students for third semester of all engineering Colleges under UPTU. This book is primarily written according to the unified syllabus (2009-2010) of Mathematics-III for all Engineering students.*

Indian Books in Print

Modern Physics

Cengage Learning *Accessible and flexible, MODERN PHYSICS, Third Edition has been specifically designed to provide simple, clear, and mathematically uncomplicated explanations of physical concepts and theories of modern physics. The authors clarify and show support for these theories through a broad range of current applications and examples-attempting to answer questions such as: What holds molecules together? How do electrons tunnel through barriers? How do electrons move through solids? How can currents persist indefinitely in superconductors? To pique student interest, brief sketches of the historical development of twentieth-century physics such as anecdotes and quotations from key figures as well as interesting photographs of noted scientists and original apparatus are integrated throughout. The Third Edition has been extensively revised to clarify difficult concepts and thoroughly updated to include rapidly developing technical applications in quantum physics. To complement the analytical solutions in the text and to help students visualize abstract concepts, the new edition also features free online access to QMTools, new platform-independent simulation software created by co-author, Curt Moyer, and developed with support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

Semiconductor Device Physics and Design

Springer Science & Business Media *Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges. It begins with coverage of basic physics concepts, including the physics behind polar heterostructures and strained heterostructures. The book then details the important devices ranging from p-n diodes to bipolar and field effect devices. By relating device design to device performance and then relating device needs to system use the student can see how device design works in the real world.*

A Textbook of Engineering Physics

S. Chand Publishing *A Txtbook of Engineering Physics is written with two distinct objectives:to provied a single source of information for engineering undergraduates of different specializations and provied them a solid base in physics.Successivs editions of the book incorporated topic as required by students pursuing their studies in various universities.In this new edition the contents are fine-tuned,modeinized and updated at various stages.*

MITRE Systems Engineering Guide

Concepts of Modern Physics

McGraw-Hill Science, Engineering & Mathematics *Intended to be used in a one-semester course covering modern physics for students who have already had basic physics and calculus courses. Focusing on the ideas, this book considers relativity and quantum ideas to provide a framework for understanding the physics of atoms and nuclei.*

Complex Variables

A Physical Approach with Applications and MATLAB

CRC Press *From the algebraic properties of a complete number field, to the analytic properties imposed by the Cauchy integral formula, to the geometric qualities originating from conformality, Complex Variables: A Physical Approach with Applications and MATLAB explores all facets of this subject, with particular emphasis on using theory in practice. The first five chapters encompass the core material of the book. These chapters cover fundamental concepts, holomorphic and harmonic functions, Cauchy theory and its applications, and isolated singularities. Subsequent chapters discuss the argument principle, geometric theory, and conformal mapping, followed by a more advanced discussion of harmonic functions. The author also presents a detailed glimpse of how complex variables are used in the real world, with chapters on Fourier and Laplace transforms as well as partial differential equations and boundary value problems. The final chapter explores computer tools, including Mathematica®, MapleTM, and MATLAB®, that can be employed to study complex variables. Each chapter contains physical applications drawing from the areas of physics and engineering. Offering new directions for further learning, this text provides modern students with a powerful toolkit for future work in the mathematical sciences.*

Math Unlimited

Essays in Mathematics

CRC Press *This collection of essays spans pure and applied mathematics. Readers interested in mathematical research and historical aspects of mathematics will appreciate the enlightening content of the material. Highlighting the pervasive nature of mathematics today in a host of different areas, the book also covers the spread of mathematical ideas and techniques in areas ranging from computer science to physics to biology.*

Oxford Textbook of Old Age Psychiatry

Oxford University Press *Broad in scope and with global appeal The Oxford Textbook of Old Age Psychiatry, second edition is the definitive resource on old age psychiatry. It comprehensively provides the latest knowledge on the sience and practice of treating later life mental disorders, focusing on the health and social issues that arise around ageing, dementia, co-morbidity, dependency, and the end of life in progressively ageing societies across the world. Published in previous incarnations as the much loved Psychiatry in the Elderly, this core resource for all old age psychiatrists, trainees, and other clinical professionals treating older people's mental health, has been fully revised, updated, and significantly expanded. Twelve months inclusive access to the online version, including the full text (which can be browsed by the contents list, index, or searched), links from references to external sources (via PubMed, ISI, and CrossRef), and the ability to download all figures and illustrations into PowerPoint ensures that it remains the leading text on old age psychiatry in the field. Maintaining the classic combination of comprehensive coverage, clear writing style, and the provision of authoritative and up-to-date information from earlier editions, this highly respected volume covers the underpinning basic science, both the neurobiological and social varieties, clinical practice, and specific disorders, as well as providing information on psychiatric services for older people, and medico-legal and ethical issues that often present hard challenges for those treating older patients. Taking a global approach by highlighting both the common burdens and the differences in management from country to country and with a much expanded cast of contributors providing a truly international perspective, The Oxford Textbook of Old Age Psychiatry, second edition includes information on all the latest improvements and changes in the field. New chapters are included to reflect the development of old age care; covering palliative care, the ethics of caring, and living and dying with dementia. Existing chapters have also been revised and updated throughout and additional information is included on brain stimulation therapies, memory clinics and services, and capacity, which now includes all mental capacity and decision making. Providing extensive coverage and written by experts the field, the second edition of the Oxford Textbook of Old Age Psychiatry is an essential resource; no old age psychiatrist, trainee, or anyone working in the field of mental health care for older people should be without a copy on their bookshelf.*

Modern Physics

S. Chand Publishing *This is the sixteenth edition of the textbook. It include solutions of A.M.I.E. papers. Some of the latest questions from B.E., B.Sc(Engg.) a B.Sc(General) examinations of various Indian Universities have also been added. Special features the book is that all the diagrams are redrawn & made by computer. The size of the book is all changed as per the present trend of various popular textbooks.*

Basic Engineering Physics (M.P.)

S. Chand Publishing *|Quantum Physics|Charged - Particle Ballistics|Electron Optics|Lenses And Eye-Pieces|Interference|Diffraction And Polarization|Nuclear Physics|Digital Electronics|Dielectrics|Lasers|Fibre Optics*

Modern Hinduism

Oxford University Press, USA *The Oxford History of Hinduism: Modern Hinduism focuses on developments resulting from movements within the tradition as well as contact between India and the outside world through both colonialism and globalization. Divided into three parts, part one considers the historical background to modern conceptualizations of Hinduism. Moving away from the reforms of the 19th and early 20th century, part two includes five chapters each presenting key developments and changes in religious practice in modern Hinduism. Part three moves to issues of politics, ethics, and law. This section maps and explains the powerful legal and political contexts created by the modern state--first the colonial government and then the Indian Republic--which have shaped Hinduism in new ways. The last two chapters look at Hinduism outside India focusing on Hinduism in Nepal and the modern Hindu diaspora.*

Buddhist Extremists and Muslim Minorities

Religious Conflict in Contemporary Sri Lanka

Oxford University Press *The year 2009 brought the end of the protracted civil war in Sri Lanka, and observers hoped to see the re-establishment of harmonious religious and ethnic relations among the various communities in the country. Immediately following the war's end, however, almost 300,000 Tamil people in the Northern Province were detained for up to a year's time in hurriedly constructed camps where they were closely scrutinized by military investigators to determine whether they might pose a threat to the country. While almost all had been released and resettled by 2011, the current government has not introduced, nor even seriously entertained, any significant measures of power devolution that might create meaningful degrees of autonomy in the regions that remain dominated by Tamil peoples. The Sri Lankan government has grown increasingly autocratic, attempting to assert its control over the local media and non-governmental organizations while at the same time reorienting its foreign policy away from the US, UK, EU, and Japan, to an orbit that now includes China, Burma, Russia and Iran. At the same time, hardline right-wing groups of Sinhala Buddhists have propagated-arguably with the government's tacit approval-the idea of an international conspiracy designed to destabilize Sri Lanka. The local targets of these extremist groups, the so-called fronts of this alleged conspiracy, have been identified as Christians and Muslims. Many Christian churches have suffered numerous attacks at the hands of Buddhist extremists, but the Muslim community has borne the brunt of the suffering. Buddhist Extremists and Muslim Minorities presents a collection of essays that investigate the history and current conditions of Buddhist-Muslim relations in Sri Lanka in an attempt to ascertain the causes of the present conflict. Readers unfamiliar with this story will be surprised to learn that it inverts common stereotypes of the two religious groups. In this context, certain groups of Buddhists, generally regarded as peace-oriented , are engaged in victimizing Muslims, who are increasingly regarded as militant , in unwarranted and irreligious ways. The essays reveal that the motivations for these attacks often stem from deep-seated economic disparity, but the contributors also argue that elements of religious culture have served as catalysts for the explosive violence. This is a much-needed, timely commentary that can potentially shift the standard narrative on Muslims and religious violence.*

Advances in Computer Science for Engineering and Education III

Springer *This book comprises high-quality refereed research papers presented at the Third International Conference on Computer Science, Engineering and Education Applications (ICCSEEA2020), held in Kyiv, Ukraine, on 21–22 January 2020, organized jointly by National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute”, National Aviation University, and the International Research Association of Modern Education and Computer Science. The topics discussed in the book include state-of-the-art papers in computer science, artificial intelligence, engineering techniques, genetic coding systems, deep learning with its medical applications, and knowledge representation with its applications in education. It is an excellent source of references for researchers, graduate students, engineers, management practitioners, and undergraduate students interested in computer science and their applications in engineering and education.*

Engineering Physics

Alpha Science International Limited *This text covers topics which are still at research level, such as holography, production of three-dimensional photographs, superconductivity, fibre optics, and communications. Each chapter is accompanied by problems and question papers. This edition provides seven new topics.*

Indian Book Industry

Ibi

Applied Impact Mechanics

John Wiley & Sons *This book is intended to help the reader understand impact phenomena as a focused application of diverse topics such as rigid body dynamics, structural dynamics, contact and continuum mechanics, shock and vibration, wave propagation and material modelling. It emphasizes the need for a proper assessment of sophisticated experimental/computational tools promoted widely in contemporary design. A unique feature of the book is its presentation of several examples and exercises to aid further understanding of the physics and mathematics of impact process from first principles, in a way that is simple to follow.*

Understanding Optics with Python

CRC Press *Optics is an enabling science that forms a basis for our technological civilization. Courses in optics are a required part of the engineering or physics undergraduate curriculum in many universities worldwide. The aim of Understanding Optics with Python is twofold: first, to describe certain basic ideas of classical physical and geometric optics; second, to introduce the reader to computer simulations of physical phenomena. The text is aimed more broadly for those who wish to use numerical/computational modeling as an educational tool that promotes interactive teaching (and learning). In addition, it offers an alternative to developing countries where the necessary equipment to carry out the appropriate experiments is not available as a result of financial constraints. This approach contributes to a better diffusion of knowledge about optics. The examples given in this book are comparable to those found in standard textbooks on optics and are suitable for self-study. This text enables the user to study and understand optics using hands-on simulations with Python. Python is our programming language of choice because of its open-source availability, extensive functionality, and an enormous online support. Essentials of programming in Python 3.x, including graphical user interface, are also provided. The codes in the book are available for download on the book's website. Discusses most standard topics of traditional physical and geometrical optics through Python and PyQt5 Provides visualizations and in-depth descriptions of Python's programming language and simulations Includes simulated laboratories where students are provided a "hands-on" exploration of Python software Coding and programming featured within the text are available for download on the book's corresponding website. "Understanding Optics with Python by Vasudevan Lakshminarayanan, Hassen Ghalila, Ahmed Ammar, and L. Srinivasa Varadharajan is born around a nice idea: using simulations to provide the students with a powerful tool to understand and master optical phenomena. The choice of the Python language is perfectly matched with the overall goal of the book, as the Python language provides a completely free and easy-to-learn platform with huge cross-platform compatibility, where the reader of the book can conduct his or her own numerical experiments to learn faster and better." — Costantino De Angelis, University of Brescia, Italy "Teaching an important programming language like Python through concrete examples from optics is a natural and, in my view, very effective approach. I believe that this book will be used by students and appreciated greatly by instructors. The topic of modelling optical effects and systems where the students should already have a physical background provides great motivation for students to learn the basics of a powerful programming language without the intimidation factor that often goes with a formal computer science course." — John Dudley, FEMTO-ST Institute, Besançon, France*

Physics in India, Challenges and Opportunities

Proceedings of the Conference on Physics Education and Research, Srinagar, 21-30 June 1970

Papers and proceedings.

Advances in Materials Science and Engineering

Select Proceedings of ICFMMP 2019

Springer Nature *This book presents the select proceedings of the International Conference on Functional Material, Manufacturing and Performances (ICFMMP) 2019. The book provides the state-of-the-art research, development, and commercial prospective of recent advances in materials science and engineering. The contents cover various synthesis and fabrication routes of functional and smart materials for applications in mechanical engineering, manufacturing, metrology, nanotechnology, physics, chemical and biological sciences, civil engineering, food science among others. It also provides the evolutionary behavior of materials science for industrial applications. This book will be a useful resource for researchers as well as professionals interested in the highly interdisciplinary field of materials science.*

Mathematical methods for wave propagation in science and engineering

Volume 1: Fundamentals

Ediciones UC *This series of books deals with the mathematical modeling and computational simulation of complex wave propagation phenomena in science and engineering. This first volume of the series introduces the basic mathematical and physical fundamentals, and it is mainly intended as a reference guide and a general survey for scientists and engineers. It presents a broad and practical overview of the involved foundations, being useful as much in industrial research, development, and innovation activities, as in academic labors.*

Emergent Behavior in Complex Systems Engineering

A Modeling and Simulation Approach

John Wiley & Sons *A comprehensive text that reviews the methods and technologies that explore emergent behavior in complex systems engineering in multidisciplinary fields In Emergent Behavior in Complex Systems Engineering, the authors present the theoretical considerations and the tools required to enable the study of emergent behaviors in manmade systems. Information Technology is key to today's modern world. Scientific theories introduced in the last five decades can now be realized with the latest computational infrastructure. Modeling and simulation, along with Big Data technologies are at the forefront of such exploration and investigation. The text offers a number of simulation-based methods, technologies, and approaches that are designed to encourage the reader to incorporate simulation technologies to further their understanding of emergent behavior in complex systems. The authors present a resource for those designing, developing, managing, operating, and maintaining systems, including system of systems. The guide is designed to help better detect, analyse, understand, and manage the emergent behaviour inherent in complex systems engineering in order to reap the benefits of innovations and avoid the dangers of unforeseen consequences. This vital resource: Presents coverage of a wide range of simulation technologies Explores the subject of emergence through the lens of Modeling and Simulation (M&S) Offers contributions from authors at the forefront of various related disciplines such as philosophy, science, engineering, sociology, and economics Contains information on the next generation of complex systems engineering Written for researchers, lecturers, and students, Emergent Behavior in Complex Systems Engineering provides an overview of the current discussions on complexity and emergence, and shows how systems engineering methods in general and simulation methods in particular can help in gaining new insights in complex systems engineering.*