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Engineering Physics (VTU)

Physics for Engineers

Practical Applications of Computational Biology & Bioinformatics, 14th International Conference (PACBB 2020)

Advances in Computing and Information Technology

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Modern Engineering Physics
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SANTANA CARLA

ENGINEERING PHYSICS.

Springer

The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019),

presenting scientific work related to smart solution concepts. It discusses computational collective intelligence, which includes interactions between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It also describes how to successfully approach

various government organizations for funding for business and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies. *S.Chand Engineering Physics New Age*

International
The foundation of quantitative genetics theory was developed during the last century and facilitated many successful breeding programs for cultivated plants and terrestrial livestock. The results have been almost universally impressive, and today nearly all agricultural production utilises genetically improved seed and animals. The aquaculture industry can learn a great deal from these experiences, because the

basic theory behind selective breeding is the same for all species. The first published selection experiments in aquaculture started in 1920 s to improve disease resistance in fish, but it was not before the 1970 s that the first family based breeding program was initiated for Atlantic salmon in Norway by AKVAFORSK. Unfortunately, the subsequent implementation of selective breeding on a wider scale in aquaculture has been slow, and

despite the dramatic gains that have been demonstrated in a number of species, less than 10% of world aquaculture production is currently based on improved stocks. For the long-term sustainability of aquaculture production, there is an urgent need to develop and implement efficient breeding programs for all species under commercial production. The ability for aquaculture to successfully meet the demands of an ever increasing human population, will rely on

genetically improved stocks that utilise feed, water and land resources in an efficient way. Technological advances like genome sequences of aquaculture species, and advanced molecular methods means that there are new and exciting prospects for building on these well-established methods into the future.

**Inventive
Communication and
Computational**

Technologies Springer

Nature

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. *Ground Characterization and Foundations* Engineering Physics (VTU) This book presents select proceedings of the International Conference on Advanced Lightweight Materials and Structures (ICALMS) 2020, and discusses the triad of processing, structure, and various properties of lightweight materials. It provides a well-balanced insight into materials science and mechanics of both synthetic and natural composites. The book includes topics such as

nano composites for lightweight structures, impact and failure of structures, biomechanics and biomedical engineering, nanotechnology and micro-engineering, tool design and manufacture for producing lightweight components, joining techniques for lightweight structures for similar and dissimilar materials, design for manufacturing, reliability and safety, robotics, automation and control, fatigue and fracture mechanics, and friction stir welding in

lightweight sandwich structures. The book also discusses latest research in composite materials and their applications in the field of aerospace, construction, wind energy, automotive, electronics and so on. Given the range of topics covered, this book can be a useful resource for beginners, researchers and professionals interested in the wide ranging applications of lightweight structures.

Waves and Oscillations

Vikas Publishing House

The book consists of high-

quality papers presented at the International Conference on Computational Science and Applications (ICCSA 2019), held at Maharashtra Institute of Technology World Peace University, Pune, India, from 7 to 9 August 2019. It covers the latest innovations and developments in information and communication technology, discussing topics such as soft computing and intelligent systems, web of sensor networks, drone operating

systems, web of sensor networks, wearable smart sensors, automated guided vehicles and many more.

Introduction to Nano

Oxford University Press
The international conference on Advances in Computing and Information technology (ACITY 2012) provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory, methodology and applications of Computer Science and Information

Technology. The Second International Conference on Advances in Computing and Information technology (ACITY 2012), held in Chennai, India, during July 13-15, 2012, covered a number of topics in all major fields of Computer Science and Information Technology including: networking and communications, network security and applications, web and internet computing, ubiquitous computing, algorithms, bioinformatics, digital image processing and

pattern recognition, artificial intelligence, soft computing and applications. Upon a strength review process, a number of high-quality, presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same, were selected and collected in the present proceedings, that is composed of three different volumes. *Indian Journal of Pure & Applied Physics* S. Chand Publishing
The book features research papers

presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23–25, 2018. It comprises high-quality research by academics and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine

learning, IoT and information security.

Electromagnetic Field Theory Vikas Publishing House

This book comprises selected papers from the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS) 2019. The book presents latest research in several areas of civil engineering such as construction and structural engineering, geotechnical engineering, environmental engineering and sustainability, and

geographical information systems. With a special emphasis on sustainable development, the book covers case studies and addresses key challenges in sustainability. The scope of the contents makes the book useful for students, researchers, and professionals interested in sustainable practices in civil engineering.

[A Textbook of Engineering Physics](#) Vikas Publishing House

The book is designed to serve as a textbook for an introductory course in

physics for the first year B.E. Students of Anna University, Chennai and RTM Nagpur University, Nagpur. The book is written with the distinctive objectives of providing the students a single source of material as per the syllabi and solid foundation in physics. Engineering may be broadly called applied physics, which developed itself through application of principles of basic physics. The fundamental discoveries in physics are harnessed by engineering; and in

turn, engineering paved way to more discoveries in physics.
Engineering Physics (VTU)
 Springer Nature
 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 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
Physics for Engineers
 Technical Publications
 This book comprises select proceedings of the International Conference on VLSI, Communication and Signal processing (VCAS 2018). It looks at latest research findings in

VLSI design and applications. The book covers a wide range of topics in electronics and communication engineering, especially in the area of microelectronics and VLSI design, communication systems and networks, and image and signal processing. The contents of this book will be useful to researchers and professionals alike. PHI Learning Pvt. Ltd. The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic

engineering. Along with electronics, electromagnetics plays an important role in other branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge

distributions, electric flux, electric flux density, Gauss's law, divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's

and Laplace's equations and their use in variety of practical applications. The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details

of Faraday's laws, time varying fields, Maxwell's equations and Poynting theorem. Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. 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. The variety of solved

examples is the feature of this book which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

[Practical Applications of Computational Biology & Bioinformatics, 14th International Conference](#)

(PACBB 2020) PHI Learning Pvt. Ltd. This book "Engineering Physics" is prepared specially for I and II Semester students of B.E./B.Tech. Course of Visvesvaraya Technological University. The subject matter has been methodically and systematically developed from the fundamental experimental physics. This text book has been written keeping in mind the difficulties of the students. **KEY FEATURES** • Number of solved problems for practice •

Comprehensive text with lucid language • Revision questions, chapter end summary and list of formulae for better recap • Model Question papers for better insight into the subject matter
Advances in Computing and Information Technology Springer Intended to serve as a textbook of Applied Physics / Physics paper of the undergraduate students of B.E., B.Tech and B.Sc. Exhaustive treatment of topics in optics, mechanics, relativistic mechanics,

laser, optical fibres and holography have been included.

ENGINEERING PHYSICS-II (BASIC PHYSICS)

Springer Nature

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.

Textbook of Applied Physics S. Chand Publishing

This Book Explains The Various Dimensions Of Waves And Oscillations In A Simple And Systematic

Manner. It Is An Unique Attempt At Presenting A Self-Contained Account Of The Subject With Step-By-Step Solutions Of A Large Number Of Problems Of Different Types. The Book Will Be Of Great Help Not Only To Undergraduate Students, But Also To Those Preparing For Various Competitive Examinations.

Trends in Civil Engineering and Challenges for

Sustainability New Age International
This book developed in accordance to the

syllabus of Bihar Polytechnic provides the students not just the knowledge about the fundamentals of a computer system, like its organization, memory management and hardware devices, but also the software that run on it. The book then proceeds to describe operating systems, and the basics of programming concepts like procedure-oriented programming and object-oriented programming. Useful application software like MS Word, MS

Excel and MS PowerPoint are described in great detail in separate chapters. A complete section has been devoted to the teaching of data communication, networking and Internet.

Key Features

- Incorporates basics of IT along with developing skills for using various IT tools
- Includes diagrams, pictures and screenshots
- Provides key terms, review questions, practical exercises, group discussions, project activities and application-based case studies in

each chapter

Smart Trends in Computing and Communications Springer Nature

This book presents the theory of waves and oscillations and various applications of acoustics in a logical and simple form. The physical principles have been explained with necessary mathematical formulation and supported by experimental layout wherever possible. Incorporating the classical view point all aspects of acoustic waves and

oscillations have been discussed together with detailed elaboration of modern technological applications of sound. A separate chapter on ultrasonics emphasises the importance of this branch of science in fundamental and applied research. The book is expected to present to its readers a comprehensive presentation of the subject-matter and at the same time to guide him for independent thinking on some new lines of investigation.

Modern Engineering

Physics Springer Nature
This book gathers
selected papers presented
at the Inventive
Communication and
Computational
Technologies conference
(ICICCT 2021), held on
25–26 June 2021 at
Gnanamani College of

Technology, Tamil Nadu,
India. The book covers the
topics such as Internet of
things, social networks,
mobile communications,
big data analytics, bio-
inspired computing, and
cloud computing. The
book is exclusively

intended for academics
and practitioners working
to resolve practical issues
in this area.

**A Textbook of
Engineering Physics
(Kerala)** Springer
Engineering Physics
(VTU)Vikas Publishing
House

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