

First Semester B.E. Degree Examination, Dec.2015/Jan.2016
Engineering Physics

Time: 3 hrs.

Max. Marks: 50

Note: 1. Answer any FIVE full questions, choosing one full question from each module.

- 2. Physical Constants:** Velocity of light, $c = 3 \times 10^8 \text{ ms}^{-1}$
 Planck's constant, $h = 6.625 \times 10^{-34} \text{ JS}$
 Mass of electron, $m = 9.1 \times 10^{-31} \text{ kg}$
 Boltzmann constant, $K = 1.38 \times 10^{-23} \text{ JK}^{-1}$
 Avogadro number, $N_A = 6.02 \times 10^{23} / \text{Kop}$

Module-1

- 1** a. Show that Planck's law reduces to Wein's law and Rayleigh-Jeans law at lower and higher wavelength limits respectively. (06 Marks)
 b. Setup time independent Schrodinger wave equation in one dimension. (06 Marks)
 c. A particle of mass $940 \text{ MeV}/c^2$ has kinetic energy 0.5 KeV . Find its de-Broglie wavelength, c is velocity of light. (04 Marks)

OR

- 2** a. Define phase velocity and group velocity. Obtain the relation between them. (06 Marks)
 b. Using Heisenberg's uncertainty principle, prove that electrons cannot exist in a nucleus. (06 Marks)
 c. The first excited state energy of ψ electron in an infinite well is 240 eV . What will be its ground state energy when the width of the potential well is doubled? (04 Marks)

Module-2

- 3** a. What is Fermi energy? Discuss the probability of occupation of various energy states by electron at $T = 0\text{K}$ and $T \geq 0\text{K}$ on the basis of Fermi factor. (06 Marks)
 b. What is Meissner's effect? Explain Type-I and Type-II super conductors. (06 Marks)
 c. The effective mass for the electron in germanium is $0.55 m_0$, where m_0 is the free electron mass. Find the electron concentration in Germanium at 300 K , assuming that the Fermi level lies exactly in the middle of the energy gap, given that the energy gap for Germanium is 0.66 eV . (04 Marks)

OR

- 4** a. Explain the success of quantum free electron theory. (06 Marks)
 b. Explain the law of mass action and derive the expression for electrical conductivity of a semiconductor. (06 Marks)
 c. Find the relaxation time of conduction electrons in a metal of resistivity $1.54 \times 10^{-8} \text{ ohm-m}$, if the metal has 5.8×10^{28} conduction electrons per m^3 . (04 Marks)

Module-3

- 5** a. Obtain an expression for energy density of radiation in terms of Einstein's coefficients. (06 Marks)
 b. What is numerical aperture? Obtain an expression for numerical aperture in terms of refractive indices of core and cladding of an optical fiber. (06 Marks)
 c. The ratio of population of two energy levels is 1.059×10^{-30} . Find the wavelength of light emitted at 330 K . (04 Marks)

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Srivastava



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A Textbook Of Engineering Physics (as Per Vtu Syllabus) S.O. Pillai,2007-01-01

Engineering Physics - 2 Edition - Vtu K L Savithramma,2003-01-01

A Textbook Of Engineering Physics (As Per Vtu Syllabus) S.O. Pillai,Sivakami,2014-08 This textbook is a comprehensive up to date volume providing the concepts and applications of contemporary physics for the use of students pursuing undergraduate engineering degree courses in institutions affiliated to Indian Universities Located in different zones A modern description of interaction between atoms and molecules is given along with discussions of topics such as lasers nanotechnology magnetic properties of materials superconductivity and applications Many riders at the end of each chapter are the salient features of this textbook This may in turn serve the purpose of GATE aspirants and others aspiring for faculty positions in Universities Colleges and research institutions through written examinations

Engineering Physics K.V.S.Ganeswara Rao,2008 Written according to syllabus of Viswesvaraya Technological University Belgaum Karnataka

Problems and Solutions in Engineering Physics:Solved Numerical Problems and Question Papers Gopal,2005-02-01

Engineering Physics Made Easy Singh & Kumar,2010-01-01 Made Easy Series is developed with an objective of meeting the requirement of books that cover syllabi of important core engineering subjects focussing completely on the manner in which concepts will be tested in examinations Books in this series are designed in a question and answer format to cater to undergraduate students of all major technological universities and to equip them with the desired knowledge in a simple yet comprehensive manner They explore all the important concepts of the syllabi with the help of solved questions and numerical problems of previous years question papers of these universities Apart from being extremely student friendly and lucid the books in this series are rich in pedagogical features such as brief point wise discussion of fundamental concepts theoretical questions with answers solved numerical problems and objective questions and exercises for further practice all taken from previous years question papers that aid students in preparing well for university examinations Because of the fiercely competitive nature of the current academic scenario and the large number of books available for each topic it is extremely difficult for students to spend too much time in an in depth study of each book especially during examinations when they are hard pressed for time Made Easy Series will empower students to prepare for university examinations in a systematic and thorough manner in a limited amount of time The syllabi of the following universities have been covered in the book UPTU Anna Univ JNTU VTU RTU RGTU WBUT BPUT PTU Pune Univ Mumbai Univ

Engineering Physics Theory And Experiments : (As Per The New Syllabus, B. Tech. I Year Of U.P. Technical University) Srivastava,2009

ELEMENTS OF CIVIL ENGINEERING AND ENGINEERING MECHANICS M. N. SHESHA PRAKASH, GANESH B. MOGAVEER, 2014-07-30

This book in its third edition continues to focus on the basics of civil engineering and engineering mechanics to provide students with a balanced and cohesive study of the two areas as needed by them in the beginning of their engineering education. A basic undergraduate textbook for the first year students of all branches of engineering, this book is specifically designed to conform to the syllabus of Visvesvaraya Technological University (VTU). Imparting the basic knowledge in various facets of civil engineering and the related engineering structures and infrastructure such as buildings, roads, highways, dams, and bridges, the third edition covers the engineering mechanics portion in eleven chapters. Each chapter introduces the concepts to the reader stepwise, providing a wealth of practice examples. The book emphasizes the importance of building strong analytical skills. Practice problems at the end of each chapter give students an opportunity to absorb concepts and hone their problem-solving skills. The book comes with a companion CD containing the software developed using MS Excel to work out the problems on Forces, Centroid, Friction, and Moment of Inertia. The use of this software will enable the students to understand the concepts in a relatively better way. NEW TO THIS EDITION: Introduces a chapter on Kinematics as per the revised Civil Engineering syllabus of VTU. Updates with the latest examination Question Papers, including the one held in the month of December 2013.

A Textbook of Engineering Physics M. N. Avadhanulu, 2008. 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 to 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.

Handbook of Research on Computational Intelligence for Engineering, Science, and Business Bhattacharyya, Siddhartha, 2012-11-30. Using the same strategy for the needs of image processing and pattern recognition, scientists and researchers have turned to computational intelligence for better research throughputs and end results applied towards engineering, science, business, and financial applications. *Handbook of Research on Computational Intelligence for Engineering, Science, and Business* discusses the computation intelligence approaches, initiatives, and applications in the engineering, science, and business fields. This reference aims to highlight computational intelligence as no longer limited to computing-related disciplines and can be applied to any effort which handles complex and meaningful information.

Collected Papers, 1966

Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing Velayutham, Sathiyamoorthi, 2021-01-29 In today's market emerging technologies are continually assisting in common workplace practices as companies and organizations search for innovative ways to solve modern issues that arise. Prevalent applications including internet of things, big data, and cloud computing all have noteworthy benefits, but issues remain when separately integrating them into the professional practices. Significant research is needed on converging these systems and leveraging each of their advantages in order to find solutions to real-time problems that still exist. *Challenges and Opportunities for the Convergence of IoT, Big Data, and Cloud Computing* is a pivotal reference source that provides vital research on the relation between these technologies and the impact they collectively have in solving real-world challenges. While highlighting topics such as cloud-based analytics, intelligent algorithms, and information security, this publication explores current issues that remain when attempting to implement these systems, as well as the specific applications IoT, big data, and cloud computing have in various professional sectors. This book is ideally designed for academicians, researchers, developers, computer scientists, IT professionals, practitioners, scholars, students, and engineers seeking research on the integration of emerging technologies to solve modern societal issues.

Materials Characterization Techniques Sam Zhang, Lin Li, Ashok Kumar, 2008-12-22 Experts must be able to analyze and distinguish all materials or combinations of materials in use today, whether they be metals, ceramics, polymers, semiconductors, or composites. To understand a material's structure, how that structure determines its properties, and how that material will subsequently work in technological applications, research is

Novel Research and Development Approaches in Heterogeneous Systems and Algorithms Koley, Santanu, Barman, Subhabrata, Joardar, Subhankar, 2023-03-07 Almost every element of life, from commerce and agriculture to communication and entertainment, has been profoundly altered by computing. Around the world, people rely on computers for the creation of systems for energy, transportation, and military use. Additionally, computing fosters scientific advancements that advance our basic understanding of the world and assist in finding answers to pressing health and environmental issues. *Novel Research and Development Approaches in Heterogeneous Systems and Algorithms* addresses novel research and developmental approaches in heterogeneous systems and algorithms for information-centric networks of the future. Covering topics such as image identification and segmentation, materials, data extraction, and wireless sensor networks, this premier reference source is a valuable resource for engineers, consultants, practitioners, computer scientists, students, and educators of higher education, librarians, researchers, and academicians.

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The Principles of Quantum Mechanics Paul Adrien Maurice Dirac,1981 The first edition of this work appeared in 1930 and its originality won it immediate recognition as a classic of modern physical theory The fourth edition has been bought out to meet a continued demand Some improvements have been made the main one being the complete rewriting of the chapter on quantum electrodynamics to bring in electron pair creation This makes it suitable as an introduction to recent works on quantum field theories

Playing the Quantum Field Brenda Anderson,2010-10-05 Do you often feel you are at the mercy of external forces in your life If so this book is for you Playing the Quantum Field demonstrates that you have the power to shape your own life showing how your very next choice can change struggle into play Brenda Anderson presents a fresh approach to everyday life based on the premise that everyone and everything in the universe are interconnected and she shows you how to play the quantum field to create success and joy at home or on the job She posits that the old rules no longer apply and presents a new set of rules which include ten energetic choices you can make to take control of your life and move into what she calls the Power Zone Once you grasp how easy it is to move among the choices along the energy spectrum each day will become a dynamic empowering exploration of the unlimited potential of the Field

Modern Engineering Physics A S Vasudeva,2012-07 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

Lasers:Principles, Types and Applications K. R. Nambiar,2006 This Book On Lasers Is The Culmination Of Several Years Of Relentless Personal Research Exhaustive Literature Survey Critical Analysis Of All The Facets Of The Subject And Interactions With The Subject Experts And Students In India And Abroad By The Author This Book Has Been Very Systematically Structured And Organised The Subject Has Been Divided Into Three Parts Part A Deals With All The Established Principles And Theories Of Laser Science Prefixed With A Journey Through The Relevant Areas Of Optics And Modern Physics Part B Presents A Galaxy Of All The Available Laser Schemes Of The Day With A Peep Into The Future Part C Deals With The Myriads Of Applications Of This Wonder Beam In Every Walk Of Life While Giving An Exhaustive Account About Lasers The Book Also Covers All The Relevant Aspects Of Related Subjects Such As Fibre Optics Holography Laser Safety Etc Apart From The Excellent Presentation Of The Topics As They Unfold This Book Contains A Rich Fund Of Worked Out Examples And Student Exercises With Answers The Language Is Simple And Reader Friendly The Treatise Logical And Even The Intricate Mathematical Derivations And Clear And Lucid This Book Is Meant To Be A Very Valuable Guide To Students At Graduate And Postgraduate Levels And To Those Working Or Intending To Work In The Field Of Lasers To Add To What They Already Know This Is Perhaps The Only Book At Present On Lasers By An Indian Author With Such A Vast Coverage Of The Subject Itself And The Associated Disciplines

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