

Valliammai Engineering College

Kattankulathur

DEPARTMENT OF PHYSICS

**Question Bank-I semester
PH6151- Engineering Physics -I**

UNIT I - CRYSTAL PHYSICS

PART A

1. What is meant by unit cell?
2. What are the lattice parameters for a unit cell?
3. Name the seven crystal systems and give the relation between the basic lattice parameters.
4. What are Bravais lattices?
5. Define co-ordination number.
6. Write the uses of graphite?
7. Classify the crystal growth techniques.
8. Name the two important Melt growth techniques.
9. What are crystals and what causes it to grow?
10. What are the advantages of Czochralski's method?
11. What are the limitations of Bridgman technique?
12. What are the advantages and disadvantages of Vapour Phase Epitaxy?
13. A unit cell has the dimensions $a = b = c = 4.74 \text{ \AA}$ and $\alpha = \beta = \gamma = 60^\circ$. What is its crystal structure?
14. What are Miller indices?
15. Draw the planes for Miller indices (100), (110) and (111).
16. The lattice constant for a FCC structure is 4.938 \AA . Calculate the interplanar spacing of (200) planes.
17. The interplanar distance of (110) planes in a BCC crystal is 2.03 \AA . What is the lattice parameter of the crystal?
18. α -iron of atomic weight 55.85 solidifies into BCC structure and has a density of 7860 kg/m^3 . Calculate the radius of an atom?
19. Copper has FCC structure and its atomic radius is 1.273 \AA . Find its lattice parameter and density of Copper (Given Atomic weight = 63.5)
20. An element has HCP structure. If the radius of the atom is 1.605 \AA . Find the volume of the unit cell.

Question Bank Engineering Physics I Ph6151

J. Lister Robinson



Question Bank Engineering Physics I Ph6151

VALUES AND ETHICS IN BUSINESS AND PROFESSION SAMITA MANNA,SUPARNA CHAKRABORTI,2010-05-26

Primarily intended for undergraduate students of all disciplines of engineering and students of computer applications MCA this book is a comprehensive exposition of the values and ethical principles that one needs to adopt to become a responsible and accountable professional The book is organized in nine chapters that addresses the three broad areas of concern values ethics and sustainable development It first discusses the prevalent concept of values in human society the various types of values and the crisis of values that seems to be engulfing the contemporary society The concept of ethics the various ethical values and the ethical requirements for a professional in the modern workplace are highlighted in detail The ramifications of industrialization the respective roles of science technology and engineering as well as the need for preservation of the environment and the use of eco friendly technologies are explained Finally the ethical issues involved in the management of resources are discussed A number of case studies have been provided in the book to enable a clear understanding of the topics presented Each chapter contains short answer as well as long answer questions to test the students grasp of the underlying concepts

Photonics and Fiber Optics Tarun Kumar Gangopadhyay,Pathik Kumbhakar,Mrinal Kanti

Mandal,2019-09-23 The combination of laser and optoelectronics with optical fiber technology can enhance the seamless activities of fiber optic communications and fiber sensor arena This book discusses foundations of laser technology non linear optics laser and fiber optic applications in telecommunication and sensing fields including fundamentals and recent developments in photonics technology Accumulated chapters cover constituent materials techniques of measurement of non linear optical properties of nanomaterials photonic crystals and pertinent applications in medical high voltage engineering and in optical computations and designing logic gates

Practical Railway Engineering Clifford F. Bonnett,2005

This textbook covers the very wide spectrum of all aspects of railway engineering for all engineering disciplines in a broad brush way giving a good overall knowledge of what is involved in planning designing constructing and maintaining a railway It covers all types of railway systems including light rail and metro as well as main line The first edition has proved very popular both with students new to railways and with practicing engineers who need to work in this newly expanding area In the second edition the illustrations have been improved and brought up to date particularly with the introduction of 30 colour pages which include many newly taken photographs The text has been reviewed for present day accuracy and where necessary has been modified or expanded to include reference to recent trends or developments New topics include automatic train control level crossings dot matrix indicators measures for the mobility impaired reinforced earth structures air conditioning etc Recent railway experience both technical and political has also been reflected in the commentary

Microprocessors & Microcontrollers Atul P. Godse,2008 Pentium Microprocessor Historical evolution of 80286 386 and

486 processors Pentium features and architecture Pin description Functional description Pentium real mode Pentium RISC features Pentium super scalar architecture pipelining Instruction paring rules Branch prediction Instruction and data caches The floating point unit Bus Cycles and Memory Organisation Initialization and configuration Bus operations reset Non pipelined and pipelined read and write Memory organisation and I O organisation Data transfer mechanism 8 bit 16 bit 32 bit data bus interface Pentium programming Programmer s model Register set Addressing modes Instruction set Data types Data transfer instructions String instructions Arithmetic instructions Logical instructions Bit manipulation instructions Program transfer instructions and Processor control instructions Protected Mode Introduction Segmentation support registers Related instructions descriptors Memory management through segmentation Logical to linear address translation Protection by segmentation Privilege level protection Related instructions Inter privilege level transfer of control Paging support registers descriptors Linear to physical address translation TLB Page level protection Virtual memory Multitasking Interrupts Exceptions and I O Multitasking Support registers Related descriptors Task switching I O Permission bit map Virtual mode features Address generation Privilege level Instructions and registers available entering and leaving V86 mode Interrupt structure Real Protected and Virtual 8086 modes I O handling in Pentium Comparison of all three modes 8051 Micro controller Micro controller MCS 51 family architecture On chip data memory and program memory organization Register set Register bank SFRs External data memory and program memory Interrupts structure Timers and their programming Serial port and programming Other features Design of minimum system using 8051 micro controller for various applications PIC Micro controller Overview and features of PIC16C PIC 16F8XX Pin diagram Capture mode Compare mode PWM mode Block diagram Programmer s model PIC Reset and clocking Memory organization program memory data memory Flash EEPROM PIC 16F8XX addressing modes Instruction set programming I O ports Interrupts Timers ADC

Engineering Physics Mani Naidu, 2013 Engineering Physics is designed to cater to the needs of first year undergraduate engineering students Written in a lucid style this book assimilates the best practices of conceptual pedagogy dealing at length with various topics such as crystallography principles of quantum mechanics free electron theory of metals dielectric and magnetic properties semiconductors nanotechnology etc

Electric Motors and Drives Austin Hughes, 1993 Electric Motors and Drives is intended for non specialist users of electric motors and drives filling the gap between maths and theory based academic textbooks and the more prosaic handbooks which provide useful detail but little opportunity for the development of real insight and understanding The book explores all of the widely used modern types of motor and drive including conventional and brushless D C induction motors and servo drives providing readers with the knowledge to select the right technology for a given job The third edition includes additional diagrams and worked examples throughout Now topics include digital interfacing and control of drives direct torque control of induction motors and current fed operation in DC drives The material on brushless servomotors has also been expanded

BOOK JACKET **Advances in Heat Transfer Unit**

Operations Georgina Calderon-Dominguez, Gustavo F. Gutierrez-Lopez, Keshavan Niranjana, 2016-10-03 Advances in Heat Transfer Unit Operations Baking and Freezing in Bread Making explains the latest understanding of heat transfer phenomena involved in the baking and freezing of bread and describes the most recent advanced techniques used to produce higher quality bread with a longer shelf life Heat transfer phenomena occur during key bread making stages cold storage resting and fermentation in which temperature and amount of heat transfer must be carefully controlled This book combines the engineering and technological aspects of heat transfer operations and discusses how these operations interact with the bread making process the book also discusses how baking and freezing influence the product quality Divided into fourteen chapters the book covers the basics of heat and mass transfer fluid dynamics and surface phenomena in bread making industrial operations mathematical modelling in porous systems the estimation of thermo physical properties related to bread making design of equipment and industrial applications SSC English Topic-wise LATEST 35 Solved Papers (2010-2016)

Disha Experts, 2017-02-01 Topic wise Solved Paper SSC English consists of past solved papers of SSC CGL 10 2 CHSL Sub Inspector Multi Tasking and Stenographer from 2010 to 2016 The coverage of the papers has been kept RECENT 2010 to 2016 as they actually reflect the changed pattern of the SSC exams Thus the papers prior to 2010 have not been included in the book In all there are 35 Question papers from 2010 to 2016 which have been provided topic wise along with detailed solutions Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students The book will make the aspirants competent enough to crack the uncertainty of success in the Entrance Examination **Objective**

Electrical Technology Rohit Mehta, 2008 In the present edition authors have made sincere efforts to make the book up to date A notable feature is the inclusion of two chapters on Power System It is hoped that this edition will serve the readers in a more useful way **Engineering Chemistry** Jain Pc, 2004 This book on Engineering Chemistry has been entirely rewritten in order to make it up to date and modern both in approach and content All diagrams have been redrawn or replaced by new ones To meet the requirements of the latest syllabi of the various universities of India topics like transition metals coordination compounds crystal field theory gaseous and liquid states adsorption flame photometry fullerenes composites mechanism of some typical reactions oils and fats soaps and detergents have been included or expanded upon A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter Questions have been drawn from latest examinations of various universities Laser Fundamentals, 2005-10-24 The three volumes VIII 1A B C document the state of the art of Laser Physics and Applications Scientific trends and related technological aspects are considered by compiling results and conclusions from phenomenology observation and experience Reliable data physical fundamentals and detailed references are presented In the recent decades the laser beam

source matured to a universal tool common to scientific research as well as to industrial use Today a technical goal is the generation of optical power towards shorter wavelengths shorter pulses and higher power for application in science and industry Tailoring the optical energy in wavelength space and time is a requirement for the investigation of laser induced processes i e excitation non linear amplification storage of optical energy etc According to the actual trends in laser research and development Vol VIII 1 is split into three parts Vol VIII 1A with its two subvolumes 1A1 and 1A2 covers laser fundamentals Vol VIII 1B deals with laser systems and Vol VIII 1C gives an overview on laser applications

Quantitative Aptitude for Competitive Exams - SSC/ Banking/ Railways/ Defense/ Insurance Disha Experts,2017-08-01 The book Quantitative Aptitude for Competitive Exams contains specific topics in Quantitative Aptitudewhich form a part of most of the Competitive Exams The book contains to the point theory in all the chapters with illustrations followed by an exercise with detailed solutions The book covers a lot of questions from the past competitive exams The book is a MUST for all SSC Banking Railways Defense Insurance Exam aspirants

Construction Management Jason G Smith,Jimmie Hinze,2009-11-18 Construction projects are usually completed through the efforts of several specialty contractors that enter into performance agreements with the prime contractor Mistakes whether made while bidding or when executing a construction project can be costly for the facility owner general contractor or subcontractor Focused on helping the project team avoid these mistakes and run their projects more efficiently this book describes how a prime contractor can coordinate the efforts of subcontractors and address common problems that can occur during various stages Greater understanding of problematic aspects can assure that the full scope of the project is covered without redundancy

A Textbook of Engineering Mathematics (For First Year ,Anna University) N.P. Bali,2009 **Aspen Plus** Kamal I. M. Al-Malah,2022-10-12 ASPEN PLUS Comprehensive resource covering Aspen Plus V12 1 and demonstrating how to implement the program in versatile chemical process industries Aspen Plus Chemical Engineering Applications facilitates the process of learning and later mastering Aspen Plus the market leading chemical process modeling software with step by step examples and succinct explanations The text enables readers to identify solutions to various process engineering problems via screenshots of the Aspen Plus platforms in parallel with the related text To aid in information retention the text includes end of chapter problems and term project problems online exam and quiz problems for instructors that are parametrized i e adjustable so that each student will have a standalone version and extra online material for students such as Aspen Plus related files that are used in the working tutorials throughout the entire textbook The second edition of Aspen Plus Chemical Engineering Applications includes information on Various new features that were embedded into Aspen Plus V12 1 and existing features which have been modified Aspen Custom Modeler ACM covering basic features to show how to merge customized models into Aspen Plus simulator New updates to process dynamics and control and process economic analysis since the first edition was published Vital areas of interest in relation to the software such as polymerization drug solubility

solids handling safety measures and energy saving For chemical engineering students and industry professionals the second edition of Aspen Plus Chemical Engineering Applications is a key resource for understanding Aspen Plus and the new features that were added in version 12.1 of the software Many supplementary learning resources help aid the reader with information retention

Vibrations Balakumar Balachandran, Edward B. Magrab, 2018-11 Provides an introduction to the modeling analysis design measurement and real world applications of vibrations with online interactive graphics

Basic Fluid Mechanics J. Lister Robinson, 2012-07-01

Liquid Filtration Nicholas P Cheremisinoff, 1998-07-14 This state of the art review looks at liquid filtration in the chemical process and allied industries Interpretations of the phenomenological observations of the hydrodynamics are given and specific design and selection criteria reviewed

Mechanical Engineering (objective Type). R. S. Khurmi, J. K. Gupta, 1984

Plastic Analysis and Design of Steel Structures M. Bill Wong, 2011-08-30 The plastic analysis method has been used extensively by engineers for designing steel structures Simpler structures can be analyzed using the basic virtual work formulation but more complex frames are evaluated with specialist computer software This new book sets out a method for carrying out plastic analysis of complex structures without the need for specialist tools The book provides an introduction to the use of linear programming techniques for plastic analysis This powerful and advanced method for plastic analysis is important in an automated computational environment in particular for non linear structural analysis A detailed comparison between the design codes for the United States and Australia and the emerging European Eurocodes enables practising engineers to understand the issues involved in plastic design procedures and the limitations imposed by this design method Covers latest research in plastic analysis and analytical tools Introduces new successive approximation method for calculating collapse loads Programming guide for using spreadsheet tools for plastic analysis

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