USN

15PHY12/22

First/Second Semester B.E. Degree Examination, Dec.2016/Jan.2017 **Engineering Physics**

Time: 3 hrs.

Max. Marks: 80

- Note: 1. Answer FIVE full questions, choosing one full question from each module.
 - 2. Physical Constants: Velocity of light, c = 3 × 108 ms. 1.

Planck's constant, $h = 6.625 \times 10^{-34}$ J.S. Mass of electron, $m_e = 9.1 \times 10^{-31} \text{ kg}$. Avogadro number, $N_A = 6.02 \times 10^{26} / \text{Kmol}$, Boltzmann constant, $k = 1.38 \times 10^{-23}$ J/K. Charge of an electron, $e = 1.602 \times 10^{-19}$ C

Module-1

- a. State Planck's radiation law. Show how Planck's law could be reduced to Wien's law and 1 Rayleigh-Jeans law, 607 Marksh
 - b. State Heisenberg's uncertainty principle and show that electron does not exist inside the nucleus by this principle. (05 Marks)
 - c. Find deBroglie wavelength of a particle of mass 0.58 MeV/c2 has a kinetic energy 90 eV, where c is velocity of light. (04 Marks)

COLE

- Using Schrodinger's time independent wave equation obtain eigen values and eigen function for a particle in a one dimensional potential well of infinite height.
 - b. Define phase velocity and group velocity. Show that group velocity is equal to particle (05 Marks).
 - c. The inherent uncertainty in the measurement of time spent by Iridium 191 nuclei in the excited state is found to be 1.4 × 10⁻¹⁰ s. Estimate the uncertainty that results in its energy in eV in the excited state. (04 Marks)

Module-2

- 3 Explain Meissner effect. Write any three differences between Type-I and Type-II superconductors. (07 Marks)
 - Explain the failure of classical free electron theory.

(05 Marks)

For intrinsic Gallium Arsenide, the electric conductivity at room temperature is 10⁻⁶ ohm⁻¹ m⁻¹. The electron and hole mobilities are respectively 0.85 m²/V.S and 0.04 m²/V.S. Calculate the intrinsic carrier concentration at room temperature. (04 Marks)

OR

- State law of mass action. Obtain an expression for electrical conductivity of semiconductors.
 - Explain the BCS theory of super conductivity.

co7 Marks) (05 Marries)

Calculate the probability of finding an electron at an energy level 0.02 eV above Fermi level at 200 K. (04 Marks)

First Year Mechanical Lab Manual

M Lipman

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Finite Element Methods in Mechanics Noboru Kikuchi,1986-06-12 This is a textbook written for mechanical engineering students at first year graduate level As such it emphasizes the development of finite element methods used in applied mechanics. The book starts with fundamental formulations of heat conduction and linear elasticity and derives the weak form in either principle of virtual work in elasticity from a boundary value problem that represents the mechanical behaviour of solids and fluids. Finite element approximations are then derived from this weak form. The book contains many useful exercises and the author appropriately provides the student with computer programs in both BASIC and FORTRAN for solving them Furthermore a workbook is available with additional computer listings and also an accompanying disc that contains the BASIC programs for use on IBM PC microcomputers and their compatibles. Thus the usefulness and versatility of this text is enhanced by the student s ability to practise problem solving on accessible microcomputers. Public Documents of the State of South Dakota, Being the Annual and Biennial Reports of Various Public Officers and Institutions, to the Governor and Legislature, for the Fiscal Year Ending ... South Dakota, 1906.

Catalogue University of Louisville, 1915

Report South Dakota. Department of Public Instruction,1906 Reports for 1892 94 1896 98 include Proceedings of the South Dakota Educational Association <u>University of California Press Publications</u>, Calendar - McGill University McGill University,1903 Hands-On Electronics Daniel M. Kaplan,Christopher G. White,2003-05-15 Teaches analog and digital circuit theory by building working circuits For college students and self study Catalog James Millikin University,1905 Catalog of Course of Instruction at the United States Naval Academy United States Naval Academy,

The American School Board Journal William George Bruce, William Conrad Bruce, 1901

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Table of Contents First Year Mechanical Lab Manual

- 1. Understanding the eBook First Year Mechanical Lab Manual
 - The Rise of Digital Reading First Year Mechanical Lab Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying First Year Mechanical Lab Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an First Year Mechanical Lab Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from First Year Mechanical Lab Manual
 - Personalized Recommendations
 - First Year Mechanical Lab Manual User Reviews and Ratings
 - First Year Mechanical Lab Manual and Bestseller Lists
- 5. Accessing First Year Mechanical Lab Manual Free and Paid eBooks

- First Year Mechanical Lab Manual Public Domain eBooks
- First Year Mechanical Lab Manual eBook Subscription Services
- First Year Mechanical Lab Manual Budget-Friendly Options
- 6. Navigating First Year Mechanical Lab Manual eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - First Year Mechanical Lab Manual Compatibility with Devices
 - First Year Mechanical Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of First Year Mechanical Lab Manual
 - Highlighting and Note-Taking First Year Mechanical Lab Manual
 - Interactive Elements First Year Mechanical Lab Manual
- 8. Staying Engaged with First Year Mechanical Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers First Year Mechanical Lab Manual
- 9. Balancing eBooks and Physical Books First Year Mechanical Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection First Year Mechanical Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine First Year Mechanical Lab Manual
 - Setting Reading Goals First Year Mechanical Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of First Year Mechanical Lab Manual
 - Fact-Checking eBook Content of First Year Mechanical Lab Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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