

B.E./IB.Tech. DEGREE EXAMINATION, MAY/JUNE 2009.

Second Semester

Civil Engineering

PH 2161 - ENGINEERING PHYSICS - II

(Common to all branches of B.E./IB.Tech.)

(Regulation 2008)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A - (10 x 2 = 20 marks)

1. Define the terms  
(a) relaxation time and  
(b) mobility.
2. What are the main drawbacks of classical free electron theory of metals?
3. What is meant by Fermi energy? What is physical significance?
4. What is meant by Hall effect? Write an expression for the Hall coefficient.
5. Distinguish between intrinsic and extrinsic semiconductors.
6. What do you understand by the terms "critical temperature" and "critical field" of a superconductor?
7. Distinguish between soft and hard magnets.
8. Mention four types of polarization mechanisms that can take place in the presence of an electric field in dielectric materials.
9. What are shape memory alloys? What are their properties?
10. What are the applications of carbon nanotubes?

PART B - (5 x 16 = 80 marks)

11. (a) (i) State the assumption of the classical free electron model. (4)  
(ii) Obtain an expression for the electrical conductivity of a metal on the basis of classical free electron theory. (8)  
(iii) The mobility of electron in copper is  $3 \times 10^{-3} \text{ m}^2/\text{Vs}$ . Assuming  $e = 1.6 \times 10^{-19} \text{ C}$  and  $m_e = 9.1 \times 10^{-31} \text{ kg}$ , calculate the mean free time. (4)

# Ph2161 Engineering Physics

**M Tight**



## Ph2161 Engineering Physics:

*Engineering Physics* Purnima Khare, Abhaba Swarup, 2010 This text reference provides students practicing engineers and scientists with the fundamental physical laws and modern applications used in industry Unlike many of its competitors modern physics theory e g quantum physics and its applications are discussed in detail including laser techniques and fiber optics nuclear fusion digital electronics wave optics and more An extensive review of Boolean algebra and logic gates is also included Because of its in text examples with solutions and self study exercise sets the book can be used as a refresher for engineering licensing exams or as a full year course It emphasizes only the level of mathematics needed to master concepts used in industry Engineering Physics, 2010 *Engineering Physics* Uma Mukherji, 2001 **Textbook Of Engineering Physics** Jain, Jain Mahesh C., 2009-01-01 *Engineering Physics* S. Mani Naidu, 2009 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 superconductivity lasers holography nanotechnology and optics **A Textbook of Engineering Physics** R. V. Subba Rao, 2012 Textbook Of Engineering Physics (Part II) Rajagopal, 2009 **Engineering Physics Vol II** R. K. Shukla, 2014 *Engineering Physics II* is strictly developed as per the revised syllabus of B Tech IInd semester Uttar Pradesh Technical University which is effected from the current academic session i e 2013 14 This book is designed to provide students of engineering with the preliminary conceptual knowledge about engineering physics This book consists of seven chapters which covers all the four units of the prescribed syllabus of the university **Engineering Physics II** P. K. Palanisamy, 2009 **Essentials of Engineering Physics (RTU)** A S Vasudeva, 2010 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

**Engineering Physics** R. K. Kar, 2009 In this book a large number of problem have been solved to give the students an easier understanding of the subject Engineering Physics DATTU R. JOSHI, 2010 *Advanced Engineering Physics* Dr N Thejo Kalyani, Dr Suwarna M Sawde, Dr Yogesh P Shinde, Dr Bhavana Butey, 2025-05-14 The best way to explore technology is by gaining a better understanding of the fundamental principles of physics This book has been authored to cater a complete syllabus of Sem I and Sem II papers in the first year Engineering Physics course and BSc Physics course of all autonomous affiliated and conducted Colleges and Universities at PAN India level This book is written in clear and simple English and is enriched with extraordinary illustrations that relate to everyday life events ensuring that the student comprehends and easily engages with each chapter Every chapter starts with a basic introduction thereafter delving into related topics with a detailed description of concepts and good illustrations The process of deriving the necessary equation or law is presented in a clear and simplified manner allowing even the average learner to easily understand the concepts Every chapter concludes

with a list of formulae solved problems unsolved exercises and review questions along with MCQs to assess the student s comprehension and knowledge gained from the chapter

**Engineering Physics: For PTU** Mani Naidu,2011 Engineering Physics For PTU is designed to cater to the needs of the first year undergraduate engineering students of PTU Written in a lucid style this book assimilates the best principles of conceptual pedagogy dealing at length with various topics such as lasers fibre optics quantum theory and theory of relativity

**Physics for Engineers** M. R. Srinivasan,2009 Principle of Engineering Physics II Sem A S Vasudeva, 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

**Modern Physics for Engineers** Jasprit Singh,1999-03-12 Reminding us that modern inventions new materials information technologies medical technological breakthroughs are based on well established fundamental principles of physics Jasprit Singh integrates important topics from quantum mechanics statistical thermodynamics and materials science as well as the special theory of relativity He then goes a step farther and applies these fundamentals to the workings of electronic devices an essential leap for anyone interested in developing new technologies Modern Physics for Engineers provides engineering and physics students with an accessible unified introduction to the complex world underlying today s design oriented curriculums It is also an extremely useful resource for engineers and applied scientists wishing to take advantage of research opportunities in diverse fields

Engineering Physics, 2e S. L. Kakani,2008-02-01

**Modern Engineering Physics** A S Vasudeva,2010-12 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

**Engineering Physics** Rao,Wiley,1982-07-01

## **Ph2161 Engineering Physics** Book Review: Unveiling the Power of Words

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