

## Puc 1st Physics Practical Manual

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME I Unit 1: Mechanics Chapter 1:

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Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12: Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17: Sound

Written by the members of the IFIP Working Group 2.3 (Programming Methodology) this text constitutes an exciting reference on the front-line of research activity in programming methodology. The range of subjects reflects the current interests of the members, and will offer insightful and controversial opinions on modern programming methods and practice. The material is arranged in thematic sections, each one introduced by a problem which epitomizes the spirit of that topic. The exemplary problem will encourage vigorous discussion and will form the basis for an introduction/tutorial for its section.

- Latest Board Examination Paper with Scheme of Valuation
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The World Guide to Special Libraries lists about 35,000 libraries world wide categorized by more than 800 key words - including libraries of departments,

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### Lab Manual

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"• It is strictly according to the latest CBSE guidelines

- It contains all NCERT Lab Manual Questions, fully solved
- It contains more than sufficient viva voce questions for practice
- It also includes brief description of each activity/experiment, which will help students in practicing and completing their lab work. "

This book is evolved from the experience of the author who taught all lab courses in his three

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decades of teaching in various universities in India. The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories. This book covers 118 experiments for linear/analog integrated circuits lab, communication engineering lab, power electronics lab, microwave lab and optical communication lab. The experiments described in this book enable the students to learn: • Various analog integrated circuits and their functions • Analog and digital communication techniques • Power electronics circuits and their functions • Microwave equipment and components • Optical communication devices This book is intended for the B.Tech students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science, and Applied Electronics. It is designed not only for engineering students, but can also be used by BSc/MSc (Physics) and Diploma students. **KEY FEATURES** • Contains aim, components and equipment required, theory, circuit diagram, pin-outs of active devices, design, tables, graphs, alternate circuits, and troubleshooting techniques for each experiment • Includes viva voce and examination questions with their answers • Provides exposure on various devices **TARGET AUDIENCE** • B.Tech (Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science, and Applied Electronics) • BSc/MSc (Physics) • Diploma (Engineering)

This student edition features over 50 new or completely revised tables, most of which are in the areas of fluid properties and properties of solids. The book also features extensive references to other compilations and databases that contain additional information.

The Present book S.Chand's Principle of Physics is written primarily for the students preparing

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for CBSE Examination as per new Syllabus. Simple language and systematic development of the subject matter. Emphasis on concepts and clear mathematical derivations  
Originally published as part of the renowned Bergmann-Schaefer textbook series on experimental physics, this volume fills an important void by providing a thorough treatment of the basic: atoms, molecules, nuclei, and particles. Written by experimentalists, it forms a unique compendium of our practical knowledge of the basic elements While keeping all of the rigor necessary for a clean treatment, the authors go beyond theory and describe major experimental results that give readers a clear view of the practical side of nature.

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Science in the West was born in the 16th century, and like all living things, science did not appear fully developed but has continued to grow and mature to the present day. This book targets a general audience, developing two themes: the unity of science and critical changes in methods that kept science advancing during the last century. Author Kootsey begins by constructing a novel and comprehensive organization of all scientific fields entitled "The Catalog of the Universe.". This new structure contains a biological "tree of life," adding all other known sciences. Nuclear physics and chemistry are at the bottom, materials science and geology parallel biology, cooperating groups of living

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forms are next, with the earth and the cosmos at the top. The “cooperating groups” level includes ecologies with communicating diverse forms of life and human group activities such as families, education, societies, businesses, governments, the arts, religion, etc. Every physical object in the universe appears in this Catalog and past and future things. (Hint: The structure of the universe at any time would be an entirely different kind of diagram!) The author then shows that the Catalog is a hierarchy of complexity and what that means for origins, research, and human creativity. There is one principle that accounts for the structure of the entire Catalog. Can you recognize it? Religion and the “sciences” appear in the same hierarchy so that we can be specific about their relationship. Based on the Catalog, author Kootsey explains why the change from solo researchers to multidisciplinary teams and the appearance of computers were so crucial to scientific advancement. In the final chapters, Kootsey reminds the reader that science is a human social activity with human flourishing as its goal.

The Book may be a boon for Medical/Dental/Nursing Admission aspirants. Written by Second Topper of PMT in Aligarh Muslim University 1964 and FIRST Author of Jaypee Brothers. The Author has been guiding NEET Candidates on Facebook Group pages. The content is based upon CBSE Class 11 and Class 12 Syllabus. Multiple Choice Questions (MCQ) are listed at the end.

Lab. E- Manual Physics (For XIIth Practicals) A. Every student will perform 10 experiments (5 from each section) & 8 activities (4 from each section) during the



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academic year. Two demonstration experiments must be performed by the teacher with participation of students. The students will maintain a record of these demonstration experiments.

**B. Evaluation Scheme for Practical Examination :** One experiment from any one section 8 Marks Two activities (one from each section) (4 + 4) 8 Marks Practical record (experiments & activities) 6 Marks Record of demonstration experiments & Viva based on these experiments 3 Marks Viva on experiments & activities 5 Marks Total 30 Marks

**Section A Experiments**

1. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.
2. To find resistance of a given wire using metre bridge and hence determine the specific resistance of its material.
3. To verify the laws of combination (series/parallel) of resistances using a metre bridge.
4. To compare the emf of two given primary cells using potentiometer.
5. To determine the internal resistance of given primary cells using potentiometer.
6. To determine resistance of a galvanometer by half-deflection method and to find its figure of merit.
7. To convert the given galvanometer (of known resistance and figure of merit) into an ammeter and voltmeter of desired range and to verify the same.
8. To find the frequency of the a.c. mains with a sonometer.

**Activities**

1. To measure the resistance and impedance of an inductor with or without iron core.
2. To measure resistance, voltage (AC/DC), current (AC) and check continuity of a given circuit using multimeter.
3. To assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.
4. To assemble the components of

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a given electrical circuit. 5. To study the variation in potential drop with length of a wire for a steady current. 6. To draw the diagram of a given open circuit comprising at least a battery, resistor/rheostat, key, ammeter and voltmeter. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram.

Section B Experiments 1. To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length. 2. To find the focal length of a convex lens by plotting graphs between  $u$  and  $v$  or between  $1/u$  and  $1/v$ . 3. To find the focal length of a convex mirror, using a convex lens. 4. To find the focal length of a concave lens, using a convex lens. 5. To determine angle of minimum deviation for a given prism by plotting a graph between angle of incidence and angle of deviation. 6. To determine refractive index of a glass slab using a travelling microscope. 7. To find refractive index of a liquid by using (i) concave mirror, (ii) convex lens and plane mirror. 8. To draw the I-V characteristic curve of a p-n junction in forward bias and reverse bias. 9. To draw the characteristic curve of a zener diode and to determine its reverse break down voltage. 10. To study the characteristics of a common-emitter npn or pnp transistor and to find out the values of current and voltage gains. Activities 1. To study effect of intensity of light (by varying distance of the source) on a L.D.R. 2. To identify a diode, a LED, a transistor and IC, a resistor and a capacitor from mixed collection of such items. 3. Use of multimeter to (i) identify base of transistor. (ii) distinguish between npn and pnp type transistors. (iii) see the unidirectional flow of current in case of a diode and a LED. (iv)

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check whether a given electronic component (e.g. diode, transistor or I C) is in working order. 4. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab. 5. To observe polarization of liquid using two Polaroids. 6. To observe diffraction of light due to a thin slit. 7. To study the nature and size of the image formed by (i) convex lens, (ii) concave mirror, on a screen by using a candle and a screen (for different distances of the candle from the lens/mirror). 8. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

Suggested Investigatory Projects 1. To investigate whether the energy of a simple pendulum is conserved. 2. To determine the radius of gyration about the centre of mass of a metre scale as a bar pendulum. 3. To investigate changes in the velocity of a body under the action of a constant force and determine its acceleration. 4. To compare effectiveness of different materials as insulators of heat. 5. To determine the wavelengths of laser beam by diffraction. 6. To study various factors on which the internal resistance/emf of a cell depends. 7. To construct a time-switch and study dependence of its time constant on various factors. 8. To study infrared radiations emitted by different sources using photo-transistor. 9. To compare effectiveness of different materials as absorbers of sound. 10. To design an automatic traffic signal system using suitable combination of logic gates. 11. To study luminosity of various electric lamps of different powers and make. 12. To compare the Young's modulus of elasticity of different specimens of rubber and also draw their elastic hysteresis curve.

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13. To study collision of two balls in two dimensions. 14. To study frequency response of : (i) a resistor, an inductor and a capacitor, (ii) RL circuit, (iii) RC circuit, (iv) LCR series circuit.

Written in Accordance with CBSE Syllabus for Board Examination to be Held in 2009 and 2010 This textbook is a sequel to the Textbook of Computer Science for Class XI. It is written in a simple, direct style for maximum clarity. It comprehensively covers the Class XII CBSE syllabus of Computer Science (subject code 083). The goal of the book is to develop the student's proficiency in fundamentals and make the learning process creative, engrossing and interesting. There are practice exercises and questions throughout the text, designed on the pattern of sample question papers published by CBSE. The approach of this book is to teach the students through extensive "skill and drill" type exercises in order to make them high-ranking achievers in the Board examinations. KEY FEATURES ? Provides accurate and balanced coverage of topics as prescribed in the CBSE syllabus code 083. ? Builds a solid programming foundation in C++. ? Students can prepare a Practical File with solved programming examples given in the text. ? End-of-chapter questions help teachers prepare assignments for self-practice by the students. ? End-of-chapter Programming Exercises help students in preparing for the Board practical examination. ? Solved questions at the end of each chapter prepare students for the Board theory examination. For further guidance on how to use this book effectively, e-mail the author using [seema\\_591@rediffmail.com](mailto:seema_591@rediffmail.com)

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