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experiments in the five major divisions of physical science: physics, chemistry, astronomy, geology, and meteorology. Each experiment includes an introduction, learning objectives, a list of apparatus, procedures for taking data, and questions. In addition, many

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experiments call for calculations and the plotting of graphs, and this guide provides space and graph paper for those purposes.

The market leader for the first-year physics laboratory course, this manual offers a wide range of class-tested

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experiments designed explicitly for use in small to mid-size lab programs. The manual provides a series of integrated experiments that emphasize the use of computerized instrumentation. The Sixth Edition includes a set of "computer-assisted experiments" that

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allow students and instructors to use this modern equipment. This option also allows instructors to find the appropriate balance between traditional and computer-based experiments for their courses. By analyzing data through two different

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methods, students gain a greater understanding of the concepts behind the experiments. The manual includes 14 integrated experiments—computerized and traditional—that can also be used independently of one another. Ten of

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these integrated experiments are included in the standard (bound) edition; four are available for customization. Instructors may elect to customize the manual to include only those experiments they want. The bound volume includes the 33 most

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commonly used experiments that have appeared in previous editions; an additional 16 experiments are available for examination online. Instructors may choose any of these experiments—49 in all—to produce a manual that explicitly matches their

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course needs. Each experiment includes six components that aid students in their analysis and interpretation: Advance Study Assignment, Introduction and Objectives, Equipment Needed, Theory, Experimental Procedures, and

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Ideal for use with any
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MANUAL is suitable for either
calculus- or algebra/trigonometry-
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Designed to help students demonstrate a physical principle and learn techniques of careful measurement, Loyd's PHYSICS LABORATORY MANUAL also emphasizes conceptual understanding and includes a

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thorough discussion of physical theory to help students see the connection between the lab and the lecture. Available with InfoTrac Student Collections <http://gocengage.com/infotrac>.
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"This book is divided into 5 sections. Section 1 includes two chapters: the first chapter

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describes the ADI instructional model, and the second chapter describes the development of the ADI lab investigations and provides an overview of what is included with each investigation. Sections 2-4 contain the 17 lab

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investigations. Each investigation includes three components: Teacher Notes, a Lab Handout, and Checkout Questions. Section 5 consists of five appendixes that include standards alignment matrixes, an

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overview of the CCs and the NOSK and NOSI concepts that are a focus of the lab investigations, options (in tabular format) for implementing an ADI investigation over multiple 50-minute class periods, options

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for investigation proposals, which students can use as graphic organizers to plan an investigation, and two versions of a peer-review guide and teacher scoring rubric (one for high school and one for AP)"--

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We are happy to bring out this book titled 'Physics Laboratory Manual for Undergraduates'. It contains 16 experiments based on concepts from mechanics, fluid mechanics, electricity, magnetism, optics, and

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electronics. This book has been written to meet the requirements of undergraduate students. Text has been thoroughly revised and brought up-to-date by adding essential experiments. In this book theory, formulae regarding the experiment have been

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included. List of necessary apparatus for the experiment has been given. Experimental procedure in systematic steps has been included in it. The observations in tabular form have been encouraged throughout the text. Precautions have been given

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at the end of the experiment so that students can follow them while performing the experiment. We hope that all these features of the book will prove very useful for the students. Suggestions about any errors, mistakes, doubts, additions and deletions in the

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book are also invited. If the students find any difficulty in these experiments, they may please write an email to the authors. A critical review from the academic community will indeed help us in future. Our sincere thanks to Kailash

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publication and its entire staff for publishing this book. We extend our thanks to our family members for their support during preparation of this manuscript. Lastly, we extend our sense of gratitude towards all those who helped us in this endeavor

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With the NEP 2020 and expansion of research and knowledge has changed the face of education to a great extent. In the Modern times, education is not just constricted top

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the lecture method but also includes a practical knowledge of certain subjects. This way of education helps a student to grasp the basic concepts and principles.

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Thus, trying to break the stereotype that subjects like Physics, Chemistry and Biology means studying lengthy formulas, complex structures, and handling complicated instruments,

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education easy, fun, and
enjoyable.*

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out with: * The goals or
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available items that you
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*the science concept to God
or to life * Step-by-step
instructions * Data
collection and questions
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Investigation 3. Sum of*

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*Vectors 4. Projectile
Motion 5. Recording Timer
and Acceleration of
Gravity 6. Newton's Second
Law 7. Centripetal Force
8. Acceleration on an
Inclined Plane 9.*

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Coefficient of Friction

10. Work and Power 11.

Hook's Law, Elastic

Potential Energy 12.

Potential and Kinetic

Energy 13. Impulse and

Momentum 14. Momentum and

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Collisions 15.

*Conservation of Momentum,
Collisions 16.*

*Conservation of Energy and
Momentum 17.*

*Hydrostatics, Pascal's
Principle 18. Latent Heat*

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*of Fusion 19. Mechanical
Advantage of a Simple
Machine 20. A Pendulum 21.
Speed of Sound in Air 22.
Specific Heat of Metal 23.
Wavelength of a Laser
Light 24. Wavelengths of*

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*the Visible Spectrum 25.
Refraction 26. Reflections
from a Curved Mirror 27.
Lenses 28. Static
Electricity 29. An
Electronic Breadboard 30.
Ohm's Law 31. Diodes and*

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Poetry*

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Practicals) A. Every student will perform 10 experiments (5 from each section) & 8 activities (4 from each section) during the academic year. Two demonstration experiments must be performed by the teacher with participation of students. The students will maintain a record of these

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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

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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

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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

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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

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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

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assemble a household circuit comprising three bulbs, three (on/off) switches, a fuse and a power source.

4. To assemble the components of 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

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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

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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

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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-

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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

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voltage gains. Activitie 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

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and pnp type transistors. (iii) see the unidirectional flow of current in case of a diode and a LED. (iv) 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.

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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

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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

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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

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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

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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

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rubber and also draw their elastic hysteresis curve. 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.

Jallianwala Bagh massacre, the

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butchering of unarmed innocents, is a historic event that haunts the human mind even after the lapse of a century. 1650 rounds fired in a matter of ten minutes, the blocking of exits, preventing help reaching the injured are all acts of unmitigated bestiality. Through a selection of prose and

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poetry – The direct outcome of this horrific event and an introduction that traces the history of events leading to the massacre – Rakhshanda Jalil, a literary historian and translator from Urdu and Hindi, attempts to open a window into the world of possibilities that literature offers to reflect, interpret

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and analyse events of momentous historical import. The selection offers ways of 'seeing' history, of exploring how an incident that stirred the conscience of millions, one that had far-reaching implications for the National freedom struggle and British rule, found its way through pen and

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Paper to reach the nooks and crannies of popular imagination filtered through the mind of the creative writer. The stalwarts and acknowledged doyens of Indian literature featured in this volume include Saadat Hasan Manto, Mulk Raj Anand, Krishna Chander, Abdullah Hussein, Bhisham Sahni, Ghulam

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Abbas, subadhra Kumari Chauhan, Sarojini Naidu, sohan Singh Misha, Muhammad Iqbal, Josh malihabadi, Nanak Singh, to name a few. A collection that can pave the way for further research.

Jallianwala Bagh

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covered in a standard text.
LAB EXPERIMENTS: Form 1 Lab 1,
SI (Scientific
Investigation) Measurement 1
Lab 2, Adhesion, Cohesion,
and Surface Tension Lab 3,
Pressure Caused by an
Aluminum Bar Lab 4, **Mass of a**

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DiffusionLab 6, Thermal
ExpansionLab 7, Heat
Transfer- ConductionLab 8,
Light Propagation and Shadow
Formation Lab 9, Plane
Mirrors and Mirror
ApplicationsLab 10,***

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***Electrostatics Lab 11,
Electrical Circuits Form 2 Lab
1, Magnetism Lab 2, SI
Measurement 2 Lab 3, Turning
Effect of a Force Lab 4,
Center of Gravity Lab 5,
Reflection at Curved
Surfaces Lab 6, Magnetic***

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Current Lab 7, Making an
Electric Motor Lab 8, Hooke's
Law Lab 9, Waves 1 Lab 10,
Measuring the Speed of Sound
by Using an Echo Lab 11,
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Bernoulli Effect Form 3 Lab***

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Second Law of MotionLab 4,
Work and PowerLab 5,
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MomentumLab 6, Mechanical
Advantage of a RampLab 7, An***

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10, Static Electricity Lab
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