

## Kumar Mittal Physics Class 12

*Physics : Textbook For Class Xi ISC Physics -XI A Textbook Of Discrete Mathematics Nanocomposites with Biodegradable Polymers Introduction to Nuclear and Particle Physics ISC Mathematics book 1 for Class- 11 Handbook of Microemulsion Science and Technology S. Chand's Principles Of Physics For XI APC Understanding ISC Mathematics - Class 11 - Avichal Publishing Company A Complete Course in ISC Physics Physics Quick Books Dumpty Basic Electrical Engineering Cognitive Computing for Human-Robot Interaction Synthetic Jets S. Chand's ICSE Mathematics Class -X Mathematics for Degree Students (For B.Sc. Second Year) Computerized Control Systems in the Food Industry Feynman's Tips on Physics The Tempest How to be an Explorer of the World (Free Sample) 34 Years NTA NEET (UG) BIOLOGY Chapterwise & Topicwise Solved Papers with Value Added Notes (2021 - 1988) 16th Edition Handbook of Physics Algebra and Trigonometry IIT JEE Physics (1978 to 2018: 41 Years) Topic-wise Complete Solutions P.C Wren's Grammar 4 Jallianwala Bagh Competition Science Vision Introduction to Nuclear and Particle Physics The Art Book Imagine In Search of Schrodinger's Cat Lakhmir Singh's Science for Class 8 Trees of Delhi Competition Science Vision Lab Manual Latest Edition In Five Years Comprehensive Practical Physics XI Concepts Of Physics Physics for Class XI*

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*Mathematics for Degree Students (For B.Sc. Second Year) Jun 14 2021 Bmh 201(A&B) Advanced Calculus Bmh 202 (A&B) Differential Equations Bmh 203 (A&B) Mechanics*

*S. Chand's ICSE Mathematics Class -X Jul 16 2021 S Chand's ISC Mathematics is structured according to the latest syllabus as per the new CISCE(Council for the Indian School Certificate Examinations), New Delhi, for ISC students taking classes XI & XII examinations.*

*Introduction to Nuclear and Particle Physics Jun 02 2020 ' The original edition of Introduction to Nuclear and Particle Physics was used with great success for single-semester courses on nuclear and particle physics offered by American and Canadian universities at the undergraduate level. It was also translated into German, and used overseas. Being less formal but well-written, this book is a good vehicle for learning the more intuitive rather than formal aspects of the subject. It is therefore of value to scientists with a minimal background in quantum mechanics, but is sufficiently substantive to have been recommended for graduate students interested in the fields covered in the text. In the second edition, the material begins with an exceptionally clear development of Rutherford scattering and, in the four following chapters, discusses sundry phenomenological issues concerning nuclear properties and structure, and general applications of radioactivity and of the nuclear force. This is followed by two chapters dealing with interactions of particles in matter, and how these characteristics are used to detect and identify such particles. A chapter on accelerators rounds out the experimental aspects of the field. The final seven chapters deal with elementary-particle phenomena, both before and after the realization of the Standard Model. This is interspersed with discussion of symmetries in classical physics and in the quantum domain, bringing into full focus the issues concerning CP violation, isotopic spin, and other symmetries. The final three chapters are devoted to the Standard Model and to possibly new physics beyond it, emphasizing unification of forces, supersymmetry, and other exciting areas of current research. The book contains several appendices on related subjects, such as special relativity, the nature of*

symmetry groups, etc. There are also many examples and problems in the text that are of value in gauging the reader's understanding of the material. Contents: Rutherford Scattering Nuclear Phenomenology Nuclear Models Nuclear Radiation Applications of Nuclear Physics Energy Deposition in Media Particle Detection Accelerators Properties and Interactions of Elementary Particles Symmetries Discrete Transformations Neutral Kaons, Oscillations, and CP Violation Formulation of the Standard Model Standard Model and Confrontation with Data Beyond the Standard Model Readership: Advanced undergraduates and researchers in nuclear and particle physics. Keywords: Rutherford Scattering; Nuclear Properties; Nuclear Structure; Elementary Particles; Sub-Structure of Particles; Particle Detectors; Interactions in Matter; The Standard Model; Symmetries of Nature; Theories of Nuclear and Particle Structure; Radioactivity; Supersymmetry Reviews: "The book by Das and Ferbel is particularly suited as a basis for a one-semester course on both subjects since it contains a very concise introduction to those topics and I like very much the outline and contents of this book." Kay Konigsmann Universität Freiburg, Germany "The book provides an introduction to the subject very well suited for the introductory course for physics majors. Presentation is very clear and nicely balances the issues of nuclear and particle physics, exposes both theoretical ideas and modern experimental methods. Presentation is also very economic and one can cover most of the book in a one-semester course. In the second edition, the authors updated the contents to reflect the very recent developments in the theory and experiment. They managed to do it without substantial increase of the size of the book. I used the first edition several times to teach the course 'Introduction to Subatomic Physics' and I am looking forward to use this new edition to teach the course next year." Professor Mark Strikman Pennsylvania State University, USA "This book can be recommended to those who find elementary particle physics of absorbing interest." Contemporary Physics'

Algebra and Trigonometry Nov 07 2020 "The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs."--Page 1.

Computerized Control Systems in the Food Industry May 14 2021 Covers the fundamentals and the latest advances in computerized automation and process control, control algorithms, and specific applications essential food manufacturing processes and unit operations. This text highlights the use of efficient process control to convert from batch to continuous operation and enhance plant sanitation. It compares both established and innovative control schemes.

Handbook of Physics Dec 09 2020 Physics of higher level has too many concept and remembering all them on tips all the time is not an easy task. Handbook of Physics is an important, useful and compact reference book suitable for everyday study, problem solving or exam revision for class XI - XII, Engineering & Medical entrances and other Competitions Aspirants. This book is a multi-purpose quick revision resource that contains almost all key notes, terms, Definitions and formulae that all students & professionals in physics will want to have this essential reference book within easy reach. Its unique format displays formulae clearly, places them in the context and crisply identifies describes all the variables involved, summary about every equation and formula that one might want while learning physics is one of the unique features of the book, a stimulating and crisp extract of fundamental physics is to be enjoyed by the beginners and experts equally. The book is best-selling from its first edition and one of the most useful books of its type. Table of contents Measurement, Vectors, Motion in a Straight Line, Projectile Motion and Circular Motion, Laws of Motion, Work, Power and Energy, Rotational Motion, Gravitation, Elasticity, Hydrostatics, Hydrodynamics, Surface Tensions, Thermometry and Calorimetry, Kinetic Theory of Gases, Thermodynamics, Transmission of Heat, Oscillations, Waves and Sound, Electrostatics, Current Electricity, Heating and Chemical Effects of Currents, Magnetic Effect of Current, Magnetism, Electromagnetic Induction, Alternating Currents, Ray Optics, Wave Optics, Electrons, Photons and X-rays, Atomic Physics, Nuclear Physics, Electronics, Electromagnetic Waves and Communication, Universe, Basic Formulae of Physics, Nobel Laureates in Physics, Famous Physicists and their Contributions.

ISC Mathematics book 1 for Class- 11 May 26 2022 S Chand's ISC Mathematics is structured according to the latest syllabus as per the new CISCE (Council for the Indian School Certificate Examinations), New Delhi, for ISC students taking classes XI & XII examinations.

*Basic Electrical Engineering Oct 19 2021*

*A Textbook Of Discrete Mathematics Aug 29 2022 This book explains the basic principles of Discrete Mathematics and Structures in a clear systematic manner. A contemporary approach is adopted throughout the book. The book is divided in five sections. First section discusses Set Theory, Relations and Functions, Probability and Counting Techniques; second section is about Recurrence Relations and Propositional Logic; third section is related to Lattices and Boolean algebra; fourth section includes study of Graph and Trees and the last section is about Algebraic Structures and Finite State Machines. Suitable examples, illustrations and exercises are included throughout the book to facilitate an easier understanding of the subject. The book would serve as a comprehensive text for students of Computer Science & Engineering, Computer Applications and Information Technologies.*

*Trees of Delhi Dec 29 2019*

*S. Chand's Principles Of Physics For XI Mar 24 2022 The Present book S.Chand's Principle of Physics is written primarily for the students preparing for CBSE Examination as per new Syllabus. Simple language and systematic development of the subject matter. Emphasis on concepts and clear mathematical derivations*

*Nanocomposites with Biodegradable Polymers Jul 28 2022 Bio-nanocomposites combine the enhanced properties of commercial polymer nanocomposites with the low environmental impact of biodegradable material, making them a topic of great current interest. Because of their tremendous role in reducing dependency on commercial non-biodegradable polymers, and their environmentally-friendly nature, bio-nanocomposites need to be studied in greater detail. In this book, recent advancements in their development are brought together in a single text, to provide researchers with a thorough insight into the various systems, and to open up future perspectives. Although the commercial applications of these bio-nanocomposites are in their infancy, these materials have a huge commercial potential. In setting out the next generation of advances in nanocomposite technology, this book opens the way for further developments in the field. Describing the subject as a whole, from a basic introduction to the more specific systems and advancements, this book can be used both as a professional reference and for teaching purposes.*

*Physics : Textbook For Class Xi Oct 31 2022*

*A Complete Course in ISC Physics Jan 22 2022*

*Competition Science Vision Nov 27 2019 Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.*

*Physics for Class XI Jun 22 2019 This essential core textbook has been written for the Intermediate First Year Physics Course. The book aims to help students and understand that equations in physics express concepts, and encourages them to reason out ideas and improve their problem solving skills. The need to understand logic, basic concepts, and principles of physics has been stressed throughout the text. Numerous examples are given within the text to help students understand the principles and concepts being discussed and at the end of each chapter qualitative questions are given for students to solve. Simple mathematics has been used throughout and the book is well illustrated.*

*IIT JEE Physics (1978 to 2018: 41 Years) Topic-wise Complete Solutions Oct 07 2020 "Bring conceptual clarity and develop the skills to approach any unseen problem, step by step." - HC Verma "Great Book to read and understand! Quality explanations and methodical approach separates this book from the rest. A clear winner in its category." -Review on Amazon "Must have book for every IIT JEE aspirant! There are many solution books available in the market but this book is a class apart. Solutions are explained in detail. In many questions there are extra points which are beneficial for aspirants." - Review on Amazon Written by IITians, foreword by Dr HC Verma and appreciated by students as well as teachers. Two IITian have worked together to provide a high quality Physics problem book to Indian students. It is an indispensable collection of previous 41*

years IIT questions and their illustrated solutions for any serious aspirant. The success of this work lies in making the readers capable to solve complex problems using few basic principles. The readers are also asked to attempt variations of the solved problems to help them understand the concepts better. The students can use the book as a readily available mentor for providing hints or complete solutions as per their needs. Key features of the book are: - Concept building by problem solving. The solutions reveals all the critical points. - 1400+ solved problems from IIT JEE. The book contains all questions and their solutions. - Topic-wise content arrangement to enables IIT preparation with school education. - Promotes self learning. Can be used as a readily available mentor for solutions.

*Competition Science Vision Jul 04 2020 Competition Science Vision (monthly magazine) is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India. Well-qualified professionals of Physics, Chemistry, Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to-the-point study material for aspiring candidates. The magazine covers General Knowledge, Science and Technology news, Interviews of toppers of examinations, study material of Physics, Chemistry, Zoology and Botany with model papers, reasoning test questions, facts, quiz contest, general awareness and mental ability test in every monthly issue.*

ISC Physics -XI Sep 29 2022

*How to be an Explorer of the World Feb 08 2021 At any given, moment, no matter where you are, there are hundreds of things around you that are interesting and worth documenting. Warning To whoever has just picked up this book. If you find that you are unable to use your imagination, you should put this book back immediately. It is not for you. In this book you will be repeatedly asked to . . . suspend your disbelief, complete tasks that make you feel a bit strange, look at the world in ways that make you think differently, conduct experiments on a regular basis, and see inanimate objects as alive.*

Concepts Of Physics Jul 24 2019

(Free Sample) 34 Years NTA NEET (UG) BIOLOGY Chapterwise & Topicwise Solved Papers with Value Added Notes (2021 - 1988) 16th Edition Jan 10 2021 34 Years NEET BIOLOGY Chapterwise + Topicwise Solved Papers with Value Added Notes is the thoroughly revised & updated 16th edition and it contains the past year papers of NEET 2021 to 1988 distributed in 38 Chapters. • The Questions have been arranged from 2021 to 1988 such that the students encounter the latest questions first. • Another new feature added in this edition is the classification of all Chapters in Botany & Zoology as per NEET 2021. • Further each chapter has been divided into 3-4 Topics each thus making it a total of 128 Topics. • The Topics have been arranged exactly in accordance to the NCERT books so as to make it 100% convenient to Class 11 & 12 students. • The fully solved CBSE Mains papers of 2011 & 2012 (the only Objective CBSE Mains paper held) have also been incorporated in the book topic-wise. • The book contains 37 Papers including the Karnataka 2013, Rescheduled 2015, 2016 Ph-II, Odisha 2019 & 2020 Ph-II Papers. • The detailed solutions of all questions are provided at the end of each chapter to bring conceptual clarity. • The book contains around 3620+ MILESTONE PROBLEMS IN BIOLOGY.

Feynman's Tips on Physics Apr 12 2021 Feynman's Tips on Physics is a delightful collection of Richard P. Feynman's insights and an essential companion to his legendary Feynman Lectures on Physics With characteristic flair, insight, and humor, Feynman discusses topics physics students often struggle with and offers valuable tips on addressing them. Included here are three lectures on problem-solving and a lecture on inertial guidance omitted from The Feynman Lectures on Physics. An enlightening memoir by Matthew Sands and oral history interviews with Feynman and his Caltech colleagues provide firsthand accounts of the origins of Feynman's landmark lecture series. Also included are incisive and illuminating exercises originally developed to supplement The Feynman Lectures on Physics, by Robert B. Leighton and Rochus E. Vogt. Feynman's Tips on Physics was co-authored by Michael A. Gottlieb and Ralph Leighton to provide students, teachers, and enthusiasts alike an opportunity to learn physics from some of its greatest teachers, the creators of The Feynman Lectures on Physics.

Handbook of Microemulsion Science and Technology Apr 24 2022 Demonstrating methods for overcoming stability issues in paints, wax dispersions, cosmetics, food products, and other industrial applications, this reference probes theoretical and practical issues surrounding

microemulsion science and technology. Featuring the work of 51 international experts and containing almost 1000 instructive tables, equations, and illustrations, this book reviews the performance of, and prospects for, experimental methods such as X-ray diffraction, transmission electron microscopy (TEM), light scattering, small angle neutron scattering, viscosimetry, and nuclear magnetic resonance (NMR) to characterize various aspects of the dispersed phase of microemulsions.

*Synthetic Jets* Aug 17 2021 Compiles Information from a Multitude of Sources Synthetic jets have been used in numerous applications, and are part of an emergent field. Accumulating information from hundreds of journal articles and conference papers, *Synthetic Jets: Fundamentals and Applications* brings together in one book the fundamentals and applications of fluidic actuators. Clearly and thoroughly explaining the mechanisms of underlying synthetic jet behavior—from aerospace to mechanical engineering—this book addresses a variety of aspects, and provides a holistic, systematic approach of the subject. Covers Fundamental Principles, Analysis Techniques, and Applications Designed as a starting point for newcomers, the book is divided into three parts: fundamentals, techniques, and applications, and focuses on a class of incompressible jet flows where the jet is made up of the surrounding fluid. It explores fluid dynamics, hydrodynamic modeling, acoustics, and fabrication. It covers key measurement techniques, computational modeling, and synthetic jet design. In addition to highlighting the concepts and applications of synthetic jets, (in particular their uses in flow control and thermal management in electronic devices), the book explores attempts to improve and accelerate the design and optimization processes (from flow control to electronic cooling and propulsion) involved in a wealth of applied knowledge. Features prominent experts in the field Surveys the state of the art Details a pathway to future advances in the industry *Synthetic Jets: Fundamentals and Applications* can be used as a guidebook for researchers, graduate students, and upper-level undergraduate students.

*The Tempest* Mar 12 2021 One of eighteen timeless classics for independent student reading and preparation for mainstream classrooms. Also thematically linked to core series such as *Visions*.

*In Five Years* Sep 25 2019 A NEW YORK TIMES BESTSELLER A Good Morning America, FabFitFun, and Marie Claire Book Club Pick “In Five Years is as clever as it is moving, the rare read-in-one-sitting novel you won’t forget.” —Chloe Benjamin, New York Times bestselling author of *The Immortalists* Perfect for fans of *Me Before You* and *One Day*—a striking, powerful, and moving love story following an ambitious lawyer who experiences an astonishing vision that could change her life forever. Where do you see yourself in five years? Dannie Kohan lives her life by the numbers. She is nothing like her lifelong best friend—the wild, whimsical, believes-in-fate Bella. Her meticulous planning seems to have paid off after she nails the most important job interview of her career and accepts her boyfriend’s marriage proposal in one fell swoop, falling asleep completely content. But when she awakens, she’s suddenly in a different apartment, with a different ring on her finger, and beside a very different man. Dannie spends one hour exactly five years in the future before she wakes again in her own home on the brink of midnight—but it is one hour she cannot shake. *In Five Years* is an unforgettable love story, but it is not the one you’re expecting.

*In Search of Schrodinger's Cat* Feb 29 2020 Quantum theory is so shocking that Einstein could not bring himself to accept it. It is so important that it provides the fundamental underpinning of all modern sciences. Without it, we'd have no nuclear power or nuclear weapons, no TV, no computers, no science of molecular biology, no understanding of DNA, no genetic engineering. *In Search of Schrodinger's Cat* tells the complete story of quantum mechanics, a truth stranger than any fiction. John Gribbin takes us step by step into an ever more bizarre and fascinating place, requiring only that we approach it with an open mind. He introduces the scientists who developed quantum theory. He investigates the atom, radiation, time travel, the birth of the universe, superconductors and life itself. And in a world full of its own delights, mysteries and surprises, he searches for *Schrodinger's Cat* - a search for quantum reality - as he brings every reader to a clear understanding of the most important area of scientific study today - quantum physics. *In Search of Schrodinger's Cat* is a fascinating and delightful introduction to the strange world of the quantum - an essential element in understanding today's world.

*Dumpty* Nov 19 2021 New York Times Bestseller! *Dumpty: The Age of Trump in Verse* is Volume 1 of a satirical poetry collection from award-winning actor and bestselling author John Lithgow. Chronicling the last few raucous years in American politics, Lithgow takes readers verse by verse

through the history of Donald Trump's presidency. • Lampoons the likes of Betsy DeVos, William Barr, Rudy Giuliani, and dozens more. • Illustrated from cover to cover with Lithgow's never-before-seen line drawings. • Draws inspiration from A. A. Milne, Lewis Carroll, Edward Lear, and even Mother Goose. • Great for fans of *A Very Stable Genius* by Mike Luckovich, *Win Bigly: Persuasion in a World Where Facts Don't Matter* by Scott Adams, and *The Donald J. Trump Presidential Twitter Library* by The Daily Show with Trevor Noah. The poems collected in *Dumpty* draw inspiration from A. A. Milne, Lewis Carroll, Edward Lear, Rodgers and Hammerstein, Mother Goose, and many more. A feat of laugh-out-loud lyrical storytelling, this timely volume is bound to bring joy to poetry lovers, political junkies, and Lithgow fans alike. Audio edition read by the author.

Introduction to Nuclear and Particle Physics Jun 26 2022 This textbook fills the gap between the very basic and the highly advanced volumes that are widely available on the subject. It offers a concise but comprehensive overview of a number of topics, like general relativity, fission and fusion, which are otherwise only available with much more detail in other textbooks. Providing a general introduction to the underlying concepts (relativity, fission and fusion, fundamental forces), it allows readers to develop an idea of what these two research fields really involve. The book uses real-world examples to make the subject more attractive and encourage the use of mathematical formulae. Besides short scientists' biographies, diagrams, end-of-chapter problems and worked solutions are also included. Intended mainly for students of scientific disciplines such as physics and chemistry who want to learn about the subject and/or the related techniques, it is also useful to high school teachers wanting to refresh or update their knowledge and to interested non-experts.

Lakhmir Singh's Science for Class 8 Jan 28 2020 Lakhmir Singh's Science is a series of books which conforms to the NCERT syllabus. The main aim of writing this series is to help students understand difficult scientific concepts in a simple manner in easy language. The ebook version does not contain CD.

P C Wren's Grammar 4 Sep 05 2020 New English Grammar Series

APC Understanding ISC Mathematics - Class 11 - Avichal Publishing Company Feb 20 2022 Understanding ISC Mathematics, for class 11 - sections A, B & C, has been written by Mr. M.L. Aggarwal (Former Head of P.G. Department of Mathematics, D.A.V. College, Jalandhar) strictly according to the new syllabus prescribed by the Council for the Indian School Certificate Examinations, New Delhi in the year 2015 and onwards for students of class 11. A new feature - Typical Illustrative Examples and Typical Problems, has been added in some chapters for those students who want to attempt some more challenging problems. The entire matter in the book is given in a logical sequence so as to develop and strengthen the concepts of the students.

The Art Book May 02 2020 Depicts five hundred paintings and sculptures from the Middle Ages to the present, each by a different artist, in alphabetical order by artist, with a brief description of the work and its place in art history and in the artist's career.

Lab Manual Latest Edition Oct 26 2019 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 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 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 mirror, 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) check whether a given electronic component (e.g. diode, transistor or IC) 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 light 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. 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 Aug 05 2020 Jallianwala Bagh massacre, the 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 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 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 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 Abbas, Subhadra 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.

Cognitive Computing for Human-Robot Interaction Sep 17 2021 Cognitive Computing for Human-Robot Interaction: Principles and Practices explores the efforts that should ultimately enable society

to take advantage of the often-heralded potential of robots to provide economical and sustainable computing applications. This book discusses each of these applications, presents working implementations, and combines coherent and original deliberative architecture for human-robot interactions (HRI). Supported by experimental results, it shows how explicit knowledge management promises to be instrumental in building richer and more natural HRI, by pushing for pervasive, human-level semantics within the robot's deliberative system for sustainable computing applications. This book will be of special interest to academics, postgraduate students, and researchers working in the area of artificial intelligence and machine learning. Key features: Introduces several new contributions to the representation and management of humans in autonomous robotic systems; Explores the potential of cognitive computing, robots, and HRI to generate a deeper understanding and to provide a better contribution from robots to society; Engages with the potential repercussions of cognitive computing and HRI in the real world. Introduces several new contributions to the representation and management of humans in an autonomous robotic system Explores cognitive computing, robots and HRI, presenting a more in-depth understanding to make robots better for society Gives a challenging approach to those several repercussions of cognitive computing and HRI in the actual global scenario

Physics Quick Books Dec 21 2021 1. The new Physics Quick Book is reference book Science students 2. This book provides quick short notes and important formulae for last minute preparation 3. Each chapter is covered with all the important formulae and concepts 4. This book for JEE, NEET & Class 11/12 exam Short notes for last minute revision are very important as we don't have time to revise the entire syllabus. At the same time continuous revision of formulae and main concepts are equally important. Presenting, "Physics Quick Book" a reference book which is designed for the last minute preparation for JEE, NEET & Class 11/12 exam. It is divided into 22 different chapters, where every chapter is provided with quick short notes and listed with important formulae so that no student should skip any important chapter. Emphasizing on each chapter covers all the important formulae, concepts in a lucid and concise manner. This is a must have book for the quick revision at the last moment. TOC General Physics, Kinematics I, Kinematics II, Laws of Motion, Work, Power and Energy, Circular Motion, Centre of Mass, Momentum and Impulse, Rotational motion, Gravitation. Properties of Solid Fluid Mechanics, Simple Harmonic Motion, Wave Motion, Heat and Thermodynamics, Ray Optics, Wave Optics, Electrostatics, Current Electricity, Magnetic Effects of Current & Magnetism, Electromagnetic Introduction and Altering Current, Modern Physics, Semiconductors

Comprehensive Practical Physics XI Aug 24 2019

Imagine Mar 31 2020 "New York Times" bestselling author Jonah Lehrer introduces us to musicians, graphic artists, poets, and bartenders to show us how we can use science to be more imaginative and make our cities, our companies, and our culture more creative.