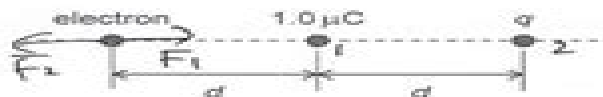


20. A positive point charge of magnitude  $1.0\mu\text{C}$  and a point charge  $q$  are separated by a distance  $d$ .



An electron is placed at a distance  $d$  from the  $+1.0\mu\text{C}$  charge. The electric force on the electron is zero.

What is  $q$ ?

- A.  $-4.0\mu\text{C}$   
 B.  $-2.0\mu\text{C}$   
 C.  $2.0\mu\text{C}$   
 D.  $4.0\mu\text{C}$

(A)

Electric field

For  $F_{\text{net}} = 0$

$$F_1 = F_2$$

$$\frac{Q_1}{4\pi\epsilon_0 r_1^2} = \frac{Q_2}{4\pi\epsilon_0 r_2^2}$$

$$\frac{Q_1}{r_1^2} = \frac{Q_2}{r_2^2}$$

$$Q_2 = \frac{r_2^2 \cdot Q_1}{r_1^2} = \frac{(2d)^2 (1\mu\text{C})}{d^2}$$

21. What is the sequence for the evolution of a main sequence star of about 2 solar masses?

- A. Red super giant  $\rightarrow$  supernova  $\rightarrow$  neutron star  
 B. Red giant  $\rightarrow$  planetary nebula  $\rightarrow$  white dwarf  
 C. Red giant  $\rightarrow$  supernova  $\rightarrow$  white dwarf  
 D. Red super giant  $\rightarrow$  planetary nebula  $\rightarrow$  neutron star

(B)

(B)

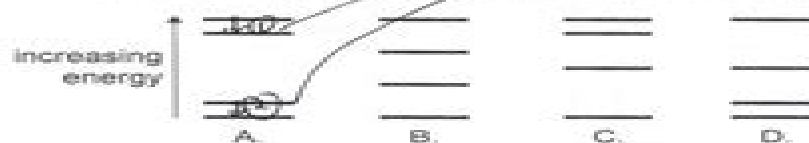
$= 4 \times 1\mu\text{C}$   
 $= 4\mu\text{C}$   
 As it is force of repulsion.  
 $Q_2 = -4\mu\text{C}$

\* Scientific facts to memorise. !!

22. The diagram shows the emission spectrum of an atom.



Which of the following atomic energy level models can produce this spectrum?



(A)

$\Delta E = \frac{hc}{\lambda}$   
 $\therefore \Delta E$  are small for 2 lines

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**C Cleary**



## **Ib Physics SI Paper 2013:**

Introducing the IB Diploma Programme Marc Abrioux, Jill Rutherford, 2013-02-14 Schools wishing to introduce the IB diploma programme are faced with major investment in terms of time effort and money in order to become authorised This manual is a resource for schools already offering the diploma as well as for prospective diploma schools *Applied Building Physics* Hugo S. L. Hens, 2016-04-25 Bad experiences with construction quality the energy crises of 1973 and 1979 complaints about sick buildings thermal acoustical visual and olfactory discomfort the need for good air quality the move towards more sustainability all these have accelerated the development of a field that for a long time was hardly more than an academic exercise building physics The discipline embraces domains such as heat and mass transfer building acoustics lighting indoor environmental quality and energy efficiency In some countries fire safety is also included Through the application of physical knowledge and its combination with information coming from other disciplines the field helps to understand the physical phenomena governing building parts building envelope whole building and built environment performance although for the last the wording urban physics is used Building physics has a real impact on performance based building design This volume on Applied Building Physics discusses the heat air and moisture performance metrics that affect building design construction and retrofitting Physical-Layer Security, Quantum Key Distribution, and Post-Quantum Cryptography Ivan B. Djordjevic, 2025-08-08 This book introduces the reader to the most advanced topics of physical layer security PLS cryptography covert stealth communications and quantum key distribution QKD also known as the quantum cryptography and post quantum cryptography PQC So far these topics have been considered as separate disciplines even though they are targeting the same security problems we are facing today The book integrates modern cryptography physical layer security QKD covert communication PQC and cyber security technologies The book is intended for a very diverse group of readers in communications engineering optical engineering wireless communications free space optical communications optical wireless communications mathematics physics communication theory information theory photonics as well as computer science Planning and Design for Sustainable Urban Mobility Un-Habitat, 2013-10-30 Urban transport systems worldwide are faced by a multitude of challenges Among the most visible of these are the traffic gridlocks experienced on city roads and highways all over the world The prescribed solution to transport problems in most cities has thus been to build more infrastructures for cars with a limited number of cities improving public transport systems in a sustainable manner However a number of challenges faced by urban transport systems such as greenhouse gas emissions noise and air pollution and road traffic accidents do not necessarily get solved by the construction of new infrastructure Planning and Design for Sustainable Urban Mobility argues that the development of sustainable urban transport systems requires a conceptual leap The purpose of transportation and mobility is to gain access to destinations activities services and goods Thus access is the ultimate objective of transportation As a result urban planning and design should focus on how to

bring people and places together by creating cities that focus on accessibility rather than simply increasing the length of urban transport infrastructure or increasing the movement of people or goods Urban form and the functionality of the city are therefore a major focus of this report which highlights the importance of integrated land use and transport planning This new report of the United Nations Human Settlements Programme UN Habitat the world's leading authority on urban issues provides some thought provoking insights and policy recommendations on how to plan and design sustainable urban mobility systems The Global Report on Human Settlements is the most authoritative and up to date global assessment of human settlements conditions and trends Preceding issues of the report have addressed such topics as Cities in a Globalizing World The Challenge of Slums Financing Urban Shelter Enhancing Urban Safety and Security Planning Sustainable Cities and Cities and Climate Change

Yearbook of International Organizations, 2013-2014 (Volume 2) Union Of International Associations, Union of International Associations, 2013-06-21 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 2 allows users to locate organizations by the country in which secretariats or members are located

Late Jurassic Margin of Laurasia—A Record of Faulting Thomas H. Anderson, Alexei N. Didenko, Cari L. Johnson, Alexander I. Khanchuk, James H. MacDonald Jr., 2015 The objective of this volume is to characterize geologic relationships and settings at the margin of the Laurasia plate from Middle Jurassic to the Early Cretaceous overlapping the time of the opening of the central Atlantic basin with the intent of assessing the compatibility of the features with contemporaneous sinistral fault movement Introduction page v

**Thermal Energy** Yatish T. Shah, 2018-01-12 The book details sources of thermal energy methods of capture and applications It describes the basics of thermal energy including measuring thermal energy laws of thermodynamics that govern its use and transformation modes of thermal energy conventional processes devices and materials and the methods by which it is transferred It covers 8 sources of thermal energy combustion fusion solar fission nuclear geothermal microwave plasma waste heat and thermal energy storage In each case the methods of production and capture and its uses are described in detail It also discusses novel processes and devices used to improve transfer and transformation processes

**Springer Handbook of Electronic and Photonic Materials** Safa Kasap, Peter Capper, 2017-10-04 The second updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials starting from fundamentals and building up to advanced topics and applications Its extensive coverage with clear illustrations and applications carefully selected chapter sequencing and logical flow makes it very different from other electronic materials handbooks It has been written by professionals in the field and

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**Years Of Quarks** Harald Fritzsch, Murray Gell-mann, 2015-03-11 Harald Fritzsch and Murray Gell Mann the two fathers of quantum chromodynamics look back at the events that led to the discovery and eventually acceptance of quarks as constituent particles it is always worthwhile to reminisce about those times when theoretical physicists were truly eclectic these stories are the testimony of a very active era in which theoretical and experimental discoveries rapidly chased one another Of central importance now is the understanding of the composition of our universe the dark matter and dark energy the hierarchy of masses and forces and a consistent quantum framework of unification of all forces of nature including gravity The closing contributions of the book put this venture in the context of today s high energy physics programme and make a connection to the most popular ideas in high energy physics today including supersymmetry unification and string theory CERN Courier Today it is known that the atomic nuclei are composed of smaller constituents the quarks A quark is always bound with two other quarks forming a baryon or with an antiquark forming a meson The quark model was first postulated in 1964 by Murray Gell Mann who coined the name quark from James Joyce s novel Finnegans Wake and by George Zweig who then worked at CERN In the present theory of strong interactions Quantum Chromodynamics proposed by H Fritzsch and Gell Mann in 1972 the forces that bind the quarks together are due to the exchange of eight gluons On the 50th anniversary of the quark model this invaluable volume looks back at the developments and achievements in the elementary particle physics that eventuated from that beautiful model Written by an international team of distinguished physicists each of whom have made major developments in the field the volume provides an essential overview of the present state to the academics and researchers Applied Mechanics Reviews , 1966 **Materials and Processes** Barrie D.

Dunn, 2015-12-29 The objective of this book is to assist scientists and engineers select the ideal material or manufacturing process for particular applications these could cover a wide range of fields from light weight structures to electronic hardware The book will help in problem solving as it also presents more than 100 case studies and failure investigations from the space sector that can by analogy be applied to other industries Difficult to find material data is included for reference The sciences of metallic primarily and organic materials presented throughout the book demonstrate how they can be applied as an integral part of spacecraft product assurance schemes which involve quality material and processes evaluations and the selection of mechanical and component parts In this successor edition which has been revised and updated engineering

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### **Advances in Atomic Molecular Collisions** Lokesh C.

Tribedi, 2024-12-01 Atomic and molecular collision physics has undergone extraordinary transformations in last few decades which is driven by a convergence of breakthroughs in the sophisticated instruments theoretical advancements and computational capabilities Rapid advancement and availability of a number of sophisticated tools such as accelerators ion sources lasers synchrotrons free electron lasers etc have led this remarkable transformation On the other hand there has been a phenomenal growth in the theoretical front which has not only complemented the experimental data but also have predicted new mechanisms guiding the experimentalists to venture into the new and challenging experiments This comprehensive collection of articles aims to capture the essence of these exciting developments offering a comprehensive overview of the latest insights into the field The articles are prepared such that the newcomers in the field will get a glimpse in the field while presenting state of the art reviews for the scientists working in the field The thirty authors from different countries who have prepared the thirteen articles are experts in their respective fields of research The articles deal with relatively new discoveries in atomic and molecular physics as well as the latest development in the field The experimental techniques and the related scientific achievements using different electron spectrometers EUV VUV spectrometers high resolution momentum imaging and COLTRIMS have been dealt in details The post collision interaction in ion atom collisions the atomic and molecular ICD spatial coherence in molecular double slit scattering electron capture and Shannon entropy collisions involving atomic and molecular dimers ultrafast processes in clusters and fullerene C60 and processes like ionization and electron emission are delved in various chapters It also explores the theoretical modeling for the structure and collisions involving water molecule and water clusters H2O n important for radio biological applications In addition theoretical techniques such as the CDW EIS CTMC TDDFT and TDLDA eikonal impulse approximation perturbed relativistic coupled cluster theory are introduced in different chapters A few dynamical scenarios using fast and ultrafast laser pulses are explored theoretically starting from femtosecond to the attosecond domain Bridging the gap between the spectroscopy and collisional aspects is one unique feature of this book A suitable balance between theory based seven chapters and experiment based six chapters articles is important characteristics of this volume Each chapter surveys not only the current state of knowledge but also indicating the pathways forward and indicating the practical applications of atomic collisions in

diverse scientific disciplines such as science of plasmas astrochemistry astrophysics radiobiology radiation damage laser and accelerator technology etc It is expected that the volume serves as a valuable resource for researchers students and enthusiasts alike pushing the boundaries of our understanding of atomic physics and its applications *Ehrlich's Geomicrobiology* Henry Lutz Ehrlich,Dianne K. Newman,Andreas Kappler,2015-10-15 Advances in geomicrobiology have progressed at an accelerated pace in recent years Ehrlich s Geomicrobiology Sixth Edition surveys various aspects of the field including the microbial role in elemental cycling and in the formation and degradation of minerals and fossil fuels Unlike the fifth edition the sixth includes many expert contributors **Masters Level Teaching, Learning and Assessment**

Pauline Kneale,2017-09-16 Masters level study requires a distinct set of approaches to teaching learning and assessment yet there is often little discussion of these issues or support for staff This much needed handbook redresses that balance by providing targeted support for those working with academic professional and applied Masters programmes Ideal for newly qualified and experienced staff alike this book covers everything you need to know to develop effective practices in Masters teaching including designing managing and reviewing a curriculum and delivering effective student support The text brings together contributions from a wide range of academics who have extensive practical experience of teaching at Masters level nationally and internationally Through sharing examples of innovative practice and student centred learning advice this book provides thought provoking support for all those working to develop and enhance Masters programmes **Vertex**

**Operators in Mathematics and Physics** J. Lepowsky,S. Mandelstam,I.M. Singer,2013-03-08 James Lepowsky t The search for symmetry in nature has for a long time provided representation theory with perhaps its chief motivation According to the standard approach of Lie theory one looks for infinitesimal symmetry Lie algebras of operators or concrete realizations of abstract Lie algebras A central theme in this volume is the construction of affine Lie algebras using formal differential operators called vertex operators which originally appeared in the dual string theory Since the precise description of vertex operators in both mathematical and physical settings requires a fair amount of notation we do not attempt it in this introduction Instead we refer the reader to the papers of Mandelstam Goddard Olive Lepowsky Wilson and Frenkel Lepowsky Meurman We have tried to maintain consistency of terminology and to some extent notation in the articles herein To help the reader we shall review some of the terminology We also thought it might be useful to supplement an earlier fairly detailed exposition of ours 37 with a brief historical account of vertex operators in mathematics and their connection with affine algebras Since we were involved in the development of the subject the reader should be advised that what follows reflects our own understanding For another view see 29 1 t Partially supported by the National Science Foundation through the Mathematical Sciences Research Institute and NSF Grant MCS 83 01664 1 We would like to thank Igor Frenkel for his valuable comments on the first draft of this introduction **Numerical Flow Simulation II** Ernst H. Hirschel,2013-06-29

The aim of this series is to publish promptly and in a de tailed form new material from the field of Numerical Fluid Mechanics

including the use of advanced computer systems Published are reports on specialized conferences workshops research programs and monographs Contents This volume contains nineteen reports on work which is conducted since 1998 in the Collaborative Research Programme Numerical Flow Simulation of the Centre National de la Recherche Scientifique CNRS and the Deutsche Forschungsgemeinschaft DFG French and German engineers and mathematicians present their joint research on the topics Development of Solution Techniques Crystal Growth and Melts Flows of Reacting Gases and Turbulent Flows In the background of their work is the still strong growth of the performance of super computer architectures which together with large advances in algorithms is opening vast new application areas of numerical flow simulation in research and industrial work Results of this programme from the period 1996 to 1998 have been presented in NNFM 66 1998

**Literature 1983, Part 1** S. Böhme, Prof. Dr. Walter Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 33 records literature published in 1983 and received before August 1 1983 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Choura Ms Monika Kohl and Ms Sylvia Matyssek Mr Martin Schlötelburg and Mr Ulrich Überall supported our task by careful proofreading It is a pleasure to thank them all for their encouragement Heidelberg September 1983 The Editors Contents Introduction 1 Concordance Relation ICSU AB AAA 3 Abbreviations 10 Periodicals Proceedings Books Activities 001 Periodicals 15 002 Bibliographical Publications Documentation Catalogues Atlases 47 003 Books 51 004 History of Astronomy 58 005 Biography 64 006 Personal Notes 65 007 Obituaries      **Leptons and Quarks** L.B.

Okun, 2013-05-10 This book comprises an introduction to the theory of the weak interaction of elementary particles The author outlines the current situation in weak interaction theory and discusses the prospects for the coming decade The reader is familiarized with simple theoretical techniques for the calculation of decay rates interaction cross sections and angular and spin correlations      *The Universe in the Rearview Mirror* Dave Goldberg, 2013-07-11 A great read Goldberg is an excellent guide Mario Livio bestselling author of *The Golden Ratio* Physicist Dave Goldberg speeds across space time and everything in between showing that our elegant universe from the Higgs boson to antimatter to the most massive group of galaxies is shaped by hidden symmetries that have driven all our recent discoveries about the universe and all the ones to



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