

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

* Scientific facts to memorise. !!

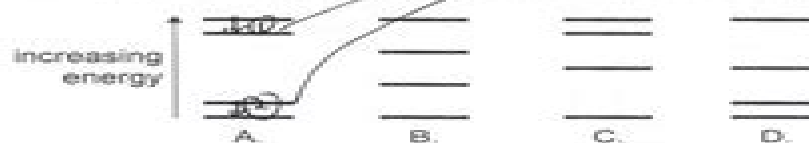
(B)

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

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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Mechanics Reviews, 1966 Dynamic Data-Driven Environmental Systems Science Sai Ravela, Adrian Sandu, 2015-11-26 This book constitutes the refereed proceedings of the First International Conference on Dynamic Data Driven Environmental Systems Science DyDESS 2014 held in Cambridge MA USA in November 2014 The 24 revised full papers and 7 short papers were carefully reviewed and selected from 62 submissions and cover topics on sensing imaging and retrieval for the oceans atmosphere space land earth and planets that is informed by the environmental context algorithms for modeling and simulation downscaling model reduction data assimilation uncertainty quantification and statistical learning methodologies for planning and control sampling and adaptive observation and efficient coupling of these algorithms into information gathering and observing system designs and applications of methodology to environmental estimation analysis and prediction including climate natural hazards oceans cryosphere atmosphere land space earth and planets **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 **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 problems associated with critical spacecraft hardware and the space environment are highlighted by over 500 illustrations including micrographs and fractographs Space hardware captured by astronauts and returned to Earth from long durations in space are examined Information detailed in the Handbook is applicable to general terrestrial applications including consumer electronics as well as high reliability systems associated with aeronautics medical equipment and ground transportation This Handbook is also directed to those involved in maximizing the reliability of new materials and processes for space technology and space engineering It will be invaluable to engineers concerned with the construction of advanced structures or mechanical and electronic sub systems 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 **Vertex Operators in Mathematics and Physics** J. Lepowsky, S. Mandelstam, I.M. Singer, 2013-03-08 James Lepowsky 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 **Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971** New York Public Library. Research Libraries,1979 Science Citation Index ,1975 Vols for 1964 have guides and journal lists
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