

(Question 1 continued)

- (d) The cross-sectional area of the tube is  $1.3 \times 10^{-3} \text{ m}^2$  and the temperature of air is 300 K. Estimate the number of moles of air in the tube. [2]

$$\begin{aligned}
 PV &= nRT & (b) A &= PY & \text{or } n &= \frac{LA}{RT} \\
 n &= \frac{PV}{RT} & & & & n = \frac{(5 \times 10^4)(1.3 \times 10^{-3})}{(8.3)(300)} \\
 \text{but you are given Area} &= 1.3 \times 10^{-3} \text{ m}^2 & & & & n = 0.026 \text{ mol} \\
 \text{since } \rho &= \frac{P}{V_H} \text{ or } P = \rho H & & & & n \approx 0.03 \text{ mol}
 \end{aligned}$$

- (e) The equation in (b) may be used to predict the pressure of the air at extremely large values of  $\frac{1}{H}$ . Suggest why this will be an unreliable estimate of the pressure. [2]

Very large  $1/H$  means small volume. Small volume means high pressure.

In ideal gas law, it stated that molecules are not close to each other and hence the forces between them are negligible.

# Ib Physics Sl Paper 3 2013

**Yi-Tong Ma**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

### **Ib Physics SI Paper 3 2013:**

*Applied Mechanics Reviews*, 1966      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      **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      *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

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*Energy Research Abstracts*, 1978

*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

*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

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**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

**50 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

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

**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

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 instructors who teach the subject at a university or in corporate laboratories The Springer Handbook of Electronic and Photonic Materials second edition includes practical applications used as examples details of experimental techniques useful tables that summarize equations and most importantly properties of various materials as well as an extensive glossary Along with significant updates to the content and the references the second edition includes a number of new chapters such as those covering novel materials and selected applications This handbook is a valuable resource for graduate students researchers and practicing professionals working in the area of electronic optoelectronic and photonic materials

*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      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

**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      *Electron Microscopy of Shale Hydrocarbon Reservoirs* Wayne K. Camp,Elizabeth Diaz,Barry Wawak,2013-10-20 Hardcover plus DVD      Nuclear Medicine in Clinical Diagnosis and Treatment Peter Josef Ell,Sanjiv Sam Gambhir,2004 An internationally recognized team of editors and contributors present an authoritative state of the art reference on nuclear medicine and its clinical applications They focus on helping the reader to solve the challenges encountered in day to day practice including image interpretation image optimization techniques and pitfalls in image acquisition and interpretation Over 4 400 illustrations 803 in full color comprise a comprehensive visual guide to interpretation This new edition also incorporates three brand new full color atlases PET and PET CT SPECT and SPECT CT and a PET brain atlas as well as many new full color images more than 800 in all Completely revised and thoroughly updated throughout the 3rd Edition encompasses of all of the latest advances in the diagnostic and therapeutic modalities available for cancer heart disease neurologic disorders and trauma as well as other diseases both common and rare      **Host Bibliographic Record for Boundwith Item Barcode 30112050443578 and Others** ,2013      **Physics** ,2013

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