

NOVEMBER/DECEMBER EXAM, 2020
FORM FOUR EXAMINATION
PHYSICS PAPER 1 MARKING SCHEME

1. Measured diameter = 0.30

0.03

0.27 mm√1



sleeve reading √1

thimble reading √1

(3mks)

2 (i) Wax at point A (floating) √1

(ii) Heat was transmitted to point A by convection but water being a poor conductor of heat the ice at B remained unmelted√1

3 $t = V/A$

$$= \frac{6 \times 10^{-10}}{3.142 \times (0.16)^2}$$

$$= 7.459 \times 10^{-9} \text{ m}$$

$$(7.45942075 \times 10^{-9} \text{ m})$$

4 The molecules in oil patch are closely packed. The oil drop is a perfect sphere/the oil patch is perfect circular. *Award 0 mark for volume of oil drop is equal to the volume of the oil patch.*

5 $Pt = mc\Delta\theta$

$$180 \times 7.5 \times 60 = 2 \times e \times 40$$

$$C = 1012.5 \text{ J/kgK}$$

6 Impurities

7 Sum of clockwise moments = sum of anticlockwise moments

$$(5 \times 50) + 35W = 30 \times 30$$

$$W = 18.57 \text{ N.}$$

8 P.E=mgh

$$= 40 \times 10^{-3} \times 10 \times 5$$

$$= 2000 \times 10^{-3}$$

November 2013 Physics Paper 1

Alexander I Studenikin

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

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Cambridge International AS and A Level Physics Revision Guide Robert Hutchings, 2015-12-10 Cambridge International AS and A Level Physics Revision Guide matches the requirements of the Cambridge AS and A Level Physics syllabus This Revision Guide offers support for students as they prepare for their AS and A Level Physics 9702 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance specifically designed to help students apply their knowledge in exams such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes Written in a clear and straightforward tone this Revision Guide is perfect for international learners *The Nano-Micro Interface* Marcel Van de Voorde, Matthias Werner, Hans-Jörg Fecht, 2015-01-08 Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules is a dream that can be achieved by nanotechnology As one of the fastest developing and innovative as well as well funded fields in science nanotechnology has already significantly changed the research landscape in chemistry materials science and physics with numerous applications in consumer products such as sunscreens and water repellent clothes It is also thanks to this multidisciplinary field that flat panel displays highly efficient solar cells and new biological imaging techniques have become reality This second enlarged edition has been fully updated to address the rapid progress made within this field in recent years Internationally recognized experts provide comprehensive first hand information resulting in an overview of the entire nano micro world In so doing they cover aspects of funding and commercialization the manufacture and future applications of nanomaterials the fundamentals of nanostructures leading to macroscale objects as well as the ongoing miniaturization toward the nanoscale domain Along the way the authors explain the effects occurring at the nanoscale and the nanotechnological characterization techniques An additional topic on the role of nanotechnology in energy and mobility covers the challenge of developing materials and devices such as electrodes and membrane materials for fuel cells and catalysts for sustainable transportation Also new to this edition are the latest figures for funding investments and commercialization prospects as well as recent research programs and organizations *Supersymmetry After the Higgs Discovery* Ignatios Antoniadis, Dumitru Ghilencea, 2014-08-18 Supersymmetry SUSY is a new symmetry that relates bosons and fermions which has strong support at both the mathematical and the physical level This book offers a comprehensive review following the development of SUSY from its very early days up to present The order of the contributions should provide the reader with the historical development as well as the latest theoretical updates and interpretations and experimental constraints from particle accelerators and dark matter searches It is a great pleasure to bring together here contributions from authors who initiated or have contributed significantly to the development of this theory over so many years To present a balanced point of view the book also includes a closing contribution that attempts to describe the physics beyond the Standard Model in the absence of SUSY The

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Questions and answers for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 288 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **The Selected Papers of Sir John Meurig Thomas** John Meurig Thomas,2017-07-07 John Meurig Thomas is a former Director of the Royal Institution of Great Britain a former head of the Department of Physical Chemistry and former Master of

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Distributed Generation and its Implications for the Utility Industry Fereidoon Sioshansi, 2014-06-26 Distributed Generation and its Implications for the Utility Industry examines the current state of the electric supply industry the upstream and downstream of the meter the various technological business and regulatory strategies and case studies that look at a number of projects that put new models into practice A number of powerful trends are beginning to affect the fundamentals of the electric utility business as we know it Recent developments have led to a fundamental re thinking of the electric supply industry and its traditional method of measuring consumption on a volumetric basis These developments include decreasing electricity demand growth the rising cost of fossil fuels and its impact on electricity costs investment in energy efficiency increasing numbers of prosumers who generate for some or all of their own needs and market reforms This book examines the implications of these trends in chapters focusing on distributed and decentralized generation transactive energy the role of electric vehicles any much more Discusses the technological business and policy trends most impacting the electric utility sector Provides an assessment of how fast and how soon distributed energy resources may make an impact on utility sales revenues Explores through a series of international case studies the implementation of strategies that may help retain the viability of the utility industry Features contributions from a number of scholars academics experts and practitioners from different parts of the world focused on examining the future of the electric supply industry 2024-25 UPSC IAS (Pre) General Studies and CSAT Solved Papers YCT Expert Team , 2024 25 UPSC IAS Pre General Studies and CSAT Solved Papers 914 1495 E This book contains previous year papers from 1993 to 2024 with detail analytical

explanation and revised answer key Solar System Planets and Exoplanets Joseph Bevelacqua, 2021-07-07 Solar System Planets and Exoplanets provides a current viewpoint of planetary systems The solar system s planets and exoplanets are addressed in an overview manner and specific space probe data are used to provide a current state of knowledge of Venus and Mars Recent Mars data and associated observations are addressed in several chapters Of particular interest are data that suggest the possibility that life could have existed on the planet s surface during its past when Mars atmosphere was wetter and denser The search for life on Mars is one of the main objectives of space missions and it is an ongoing theme of this book Key to the existence of life is the evolution of the radiation output of the Sun that is discussed and projected into the future Space probe data related to the Asteroid Belt is also presented Technological advances in terms of operating aircraft on Mars and propulsion systems provide useful commentary regarding future innovations that will enhance upcoming space missions and the search for life **Hydrogen Science and Engineering, 2 Volume Set** Detlef Stolten, Bernd Emonts, 2016-03-21 Authored by 50 top academic government and industry researchers this handbook explores mature evolving technologies for a clean economically viable alternative to non renewable energy In so doing it also discusses such broader topics as the environmental impact education safety and regulatory developments The text is all encompassing covering a wide range that includes hydrogen as an energy carrier hydrogen for storage of renewable energy and incorporating hydrogen technologies into existing technologies **Rare Earth Frontiers** Julie M. Klinger, 2018-01-15 Rare Earth Frontiers is a work of human geography that serves to demystify the powerful elements that make possible the miniaturization of electronics green energy and medical technologies and essential telecommunications and defense systems Julie Michelle Klinger draws attention to the fact that the rare earths we rely on most are as common as copper or lead and this means the implications of their extraction are global Klinger excavates the rich historical origins and ongoing ramifications of the quest to mine rare earths in ever more impossible places Klinger writes about the devastating damage to lives and the environment caused by the exploitation of rare earths She demonstrates in human terms how scarcity myths have been conscripted into diverse geopolitical campaigns that use rare earth mining as a pretext to capture spaces that have historically fallen beyond the grasp of centralized power These include legally and logistically forbidding locations in the Amazon Greenland and Afghanistan and on the Moon Drawing on ethnographic archival and interview data gathered in local languages and offering possible solutions to the problems it documents this book examines the production of the rare earth frontier as a place a concept and a zone of contestation sacrifice and transformation *Connectography* Parag Khanna, 2016-04-19 From the visionary bestselling author of *The Second World* and *How to Run the World* comes a bracing and authoritative guide to a future shaped less by national borders than by global supply chains a world in which the most connected powers and people will win Connectivity is the most revolutionary force of the twenty first century Mankind is reengineering the planet investing up to ten trillion dollars per year in transportation energy and communications

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web 33 jacob looked up and there was esau coming with his four hundred men so he divided the children among leah rachel and the two female servants 2 he put the female servants and their children in front leah and her children next and rachel and joseph in the rear 3 he himself went on ahead and bowed down to the ground seven times as he appr

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