

GRADE 11 PHYSICAL SCIENCES

NOVEMBER EXAMINATION PAPER 1: PHYSICS

SECTION A

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the **LETTER (A-D)** next to the **QUESTION NUMBER** in your answer book.

- 1.1 An example of a vector quantity:
- velocity
 - displacement
 - speed
 - mass
- 1.2 A boy sits on a chair. Gravitational force pulls him down, the force that keeps him from moving down would be:
- friction
 - applied force
 - gravity
 - normal force
- 1.3 Two forces F_1 and F_2 have a net force of 100N if they act in the same direction and are balanced if they act in the opposite direction. The individual forces of F_1 and F_2 will be:
- 70N and 30N
 - 100N and 0N
 - 60N and 40N
 - 80N and 20N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 6V
 - 7V
 - 20
 - 30
- 1.5 The total resistance of the circuit if all resistors were identical with a resistance of 20:
- 100
 - 4/50
 - 50
 - 60
- 1.6 A box is pushed forward with a force of 200N but does not move. A possible reason for this is that:
- frictional force is also 200N
 - frictional force is more than 200N
 - frictional force is less than 200N
 - none of the above
- 1.7 The diagram below shows a coil and a magnet with a pole **P**. A magnetic field is induced in the coil due to the motion of the magnet.



Which **ONE** of the following combinations will result in an induced magnetic field with **NORTH POLE** at point **B**:

	DIRECTION OF MOTION OF MAGNET	POLARITY OF P
A	into the coil	North
B	up and down inside the coil	North
C	into the coil	South
D	up and down inside the coil	South

Physical Science Paper November 2010

David Kirk



Physical Science Paper November 2010:

Solar and Space Physics National Research Council, Division on Engineering and Physical Sciences, Aeronautics and Space Engineering Board, Space Studies Board, Committee on a Decadal Strategy for Solar and Space Physics (Heliophysics), 2013-09-26 From the interior of the Sun to the upper atmosphere and near space environment of Earth and outward to a region far beyond Pluto where the Sun's influence wanes advances during the past decade in space physics and solar physics the disciplines NASA refers to as heliophysics have yielded spectacular insights into the phenomena that affect our home in space Solar and Space Physics from the National Research Council's NRC's Committee for a Decadal Strategy in Solar and Space Physics is the second NRC decadal survey in heliophysics Building on the research accomplishments realized during the past decade the report presents a program of basic and applied research for the period 2013-2022 that will improve scientific understanding of the mechanisms that drive the Sun's activity and the fundamental physical processes underlying near Earth plasma dynamics determine the physical interactions of Earth's atmospheric layers in the context of the connected Sun-Earth system and enhance greatly the capability to provide realistic and specific forecasts of Earth's space environment that will better serve the needs of society Although the recommended program is directed primarily at NASA and the National Science Foundation for action the report also recommends actions by other federal agencies especially the parts of the National Oceanic and Atmospheric Administration charged with the day-to-day operational forecast of space weather In addition to the recommendations included in this summary related recommendations are presented in this report

Transport Models in Urban Planning Practices Marco te Brömmelstroet, Luca Bertolini, 2016-04-08 This book explores how transportation models can play a role in a changing transport planning and policy making context Most models are rooted in decades of development work and are geared to offer value-free academic and explicit knowledge to transport planning experts However planning practice has changed dramatically over the years resulting in a less technical rational view on the use of such knowledge especially so in early strategy making phases More and more complex policy goals integration of a wide area of other policy domains a wider ever-changing and much more mixed group of planning participants and much more focus on wicked problems The book maps how this influences the effectiveness of transport modelling exercises and explores several state-of-the-art implementations This book was published as a special issue of Transport Reviews

Resistance Welding Hongyan Zhang, Jacek Senkara, 2011-12-13 Drawing on state-of-the-art research results Resistance Welding Fundamentals and Applications Second Edition systematically presents fundamental aspects of important processes in resistance welding and discusses their implications on real-world welding applications This updated edition describes progress made in resistance welding research and practice since the publication of the first edition New to the Second Edition Significant addition of the metallurgical aspects of materials involved in resistance welding such as steels aluminum and magnesium alloys zinc and copper Electric current waveforms commonly used in resistance welding including

single phase AC single phase DC three phase DC and MFDC Magnesium welding in terms of cracking and expulsion The effect of individual welding parameters 2 D and 3 D lobe diagrams New materials for the ultrasonic evaluation of welds including A scan B scan and in line A scan The book begins with chapters on the metallurgical processes in resistance spot welding the basics of welding schedule selection and cracking in the nugget and heat affected zone of alloys The next several chapters discuss commonly conducted mechanical tests the monitoring and control of a welding process and the destructive and nondestructive evaluation of weld quality The authors then analyze the mechanisms of expulsion a process largely responsible for defect formation and other unwanted features and explore an often overlooked topic in resistance welding related research the influence of mechanical aspects of welding machines The final chapters explain how to numerically simulate a resistance welding process and apply statistical design and analysis approaches to welding research To obtain a broad understanding of this area readers previously had to scour large quantities of research on resistance welding and essential related subjects such as statistical analysis This book collects the necessary information in one source for students researchers and practitioners in the sheet metal industry It thoroughly reviews state of the art results in resistance welding research and gives you a solid foundation for solving practical problems in a scientific and systematic manner *Climate Modelling* Elisabeth A. Lloyd, Eric Winsberg, 2018-02-13 This edited collection of works by leading climate scientists and philosophers introduces readers to issues in the foundations evaluation confirmation and application of climate models It engages with important topics directly affecting public policy including the role of doubt the use of satellite data and the robustness of models *Climate Modelling* provides an early and significant contribution to the burgeoning Philosophy of Climate Science field that will help to shape our understanding of these topics in both philosophy and the wider scientific context It offers insight into the reasons we should believe what climate models say about the world but addresses the issues that inform how reliable and well confirmed these models are This book will be of interest to students of climate science philosophy of science and of particular relevance to policy makers who depend on the models that forecast future states of the climate and ocean in order to make public policy decisions SA Reconciliation Barometer Survey Report 2010 Kate Lefko-Everett, Rorisang Lekalake, Erica Penfold, Sana Rais, **Big Eddy-Knight Transmission Project**, 2011 **UNEP Year Book 2011**, 2011 The 8th Edition of the UN Environment Programme flagship report The UNEP Year Book 2011 examines global emerging issues and provides the latest environmental science it also highlights major environmental events and developments over the past year and presents the most recent data and indicator trends The ocean has become a global repository for much of the waste we produce Scientists are concerned that plastic debris in the ocean can transport toxic substances which may end up in the food chain causing potential harm to ecosystems and human health The Year Book also explores the wider implications of the use of phosphorus in food production Phosphorus is an essential nutrient whose supply is limited Since demand for fertilizer in agriculture rocketed in the 20th century large amounts of phosphorus are flowing

into the environment New perspectives are also emerging on how biodiversity conservation can be integrated in forest management Forests are receiving increasing attention not least because of their role in climate change mitigation Halting loss of forest biodiversity is essential if forests are to adapt to mounting pressures including climate change and pest outbreaks The Year Book s overview of events and developments during 2010 shows how cutting edge science reveals new opportunities to mitigate climate change while improving air quality Stimulated by technological innovation and green investments renewable energy supply is growing rapidly This and other developments are summarized in key environmental indicators that present the latest data and trends For The global environment

Peak Energy James G. Speight, M. R. Islam, 2018-03-27 Does the Earth contain enough oil to provide energy for the human race indefinitely If not how long will the oil last What about renewable energy technologies like wind and solar Will they be able to supply an indefinite supply of energy for the human race If not how long will it last And what role does overpopulation play in our world s energy supply Even with multiple forms of energy available how long will it last as long as more and more humans and therefore more industries and energy consumption are added Taking a long held theory called Peak Oil Theory the authors of this groundbreaking new text examine the theory of Peak Energy to examine all of these questions Crude oil and natural gas are the major sources of fuel used to supply energy for various needs Users of crude oil and natural gas must take into account that these energy sources are without doubt non renewable depleting resources and the cost of extraction depends not only on the current rate of production but also on the amount of cumulative production In fact many pundits believe projections that the world is rapidly approaching a precipice after which crude oil and natural gas will no longer be in ready supply This phenomenon has given rise to the peak oil theory peak oil is the point in time when the maximum rate of petroleum recovery from the reservoir is reached after which the rate of petroleum production enters terminal decline From this concept has emerged the wider concept of the peak energy theory which as it is related to the availability of all fossil fuels is also subject to decline with fossil fuel use This text written by two of the world s most well known respected and prolific writers in the energy industry is a fascinating study of our world s energy needs and the future of the multi source energy supply on this planet Whether oil and gas wind solar geothermal or even nuclear all sources of energy have their limits and we as scientists engineers and consumers of energy need to be knowledgeable on these topics This book is a must have for any engineer student scientist or even layperson interested in energy and the idea of energy sustainability on planet Earth

Innovative Mobile and Internet Services in Ubiquitous Computing Leonard Barolli, Tomoya Enokido, 2017-07-03 This book highlights the latest research advances new methods and development techniques challenges and solutions from both theoretical and practical perspectives related to Ubiquitous and Pervasive Computing UPC with an emphasis on innovative mobile and internet services With the proliferation of wireless technologies and electronic devices there is a rapidly growing interest in UPC which makes it possible to create human oriented computing environments in which computer chips are

embedded in everyday objects and interact with the physical world With UPC people can go online even while moving around thus enjoying nearly permanent access to their preferred services Though it holds the potential to revolutionize our lives UPC also poses a number of new research challenges The book gathers the proceedings of the 11th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing IMIS 2017 held on June 28 June 30 2017 in Torino Italy

Adaptive Wireless Communications Daniel W. Bliss, Siddhant Govindasamy, 2013-05-09 Adopting a balanced mix of theory algorithms and practical design issues this comprehensive volume explores cutting edge applications in adaptive wireless communications and the implications these techniques have for future wireless network performance Presenting practical concerns in the context of different strands from information theory parameter estimation theory array processing and wireless communication the authors present a complete picture of the field Topics covered include advanced multiple antenna adaptive processing ad hoc networking MIMO MAC protocols space time coding cellular networks and cognitive radio with the significance and effects of both internal and external interference a recurrent theme throughout A broad self contained technical introduction to all the necessary mathematics statistics estimation theory and information theory is included and topics are accompanied by a range of engaging end of chapter problems With solutions available online this is the perfect self study resource for students of advanced wireless systems and wireless industry professionals The

Cassini-Huygens Visit to Saturn Michael Meltzer, 2015-01-02 Cassini Huygens was the most ambitious and successful space journey ever launched to the outer Solar System This book examines all aspects of the journey its conception and planning the lengthy political processes needed to make it a reality the engineering and development required to build the spacecraft its 2.2 billion mile journey from Earth to the Ringed Planet and the amazing discoveries from the mission The author traces how the visions of a few brilliant scientists matured gained popularity and eventually became a reality Innovative technical leaps were necessary to assemble such a multifaceted spacecraft and reliably operate it while it orbited a planet so far from our own The Cassini Huygens spacecraft design evolved from other deep space efforts most notably the Galileo mission to Jupiter enabling the voluminous paradigm shifting scientific data collected by the spacecraft Some of these discoveries are absolute gems A small satellite that scientists once thought of as a dead piece of rock turned out to contain a warm underground sea that could conceivably harbor life And we now know that hiding under the mist of Saturn's largest moon Titan is a world with lakes fluvial channels and dunes hauntingly reminiscent of those on our own planet except that on Titan it's not water that fills those lakes but hydrocarbons These and other breakthroughs illustrate why the Cassini Huygens mission will be remembered as one of greatest voyages of discovery ever made **Robotic Exploration of the Solar**

System Paolo Ulivi, David M. Harland, 2014-09-16 In Robotic Exploration of the Solar System Paolo Ulivi and David Harland provide a comprehensive account of the design and management of deep space missions the spacecraft involved some flown others not their instruments and their scientific results This fourth volume in the series covers the period 2004 to the present

day and features coverage of the Rosetta and Curiosity missions up to the end of 2013 coverage of Mars missions since 2005 including the Mars Reconnaissance Orbiter Phoenix and Fobos Grunt plus a description of plans for future robotic exploration of the Red Planet coverage of all planetary missions launched between 2004 and 2013 including the Deep Impact cometary mission the MESSENGER Mercury orbiter the New Horizons Pluto flyby and the Juno Jupiter orbiter the first complete description of the Chinese Chang e 2 asteroid flyby mission ever published extensive coverage of future missions including the European BepiColombo Mercury orbiter and international plans to revisit the most interesting moons of Jupiter and Saturn

Handbook of Clinical Psychology in Medical Settings Christine M. Hunter, Christopher L. Hunter, Rodger Kessler, 2014-06-30 Growing recognition of the role of behavioral health in overall health the rise of health psychology the trend toward interdisciplinary medicine any number of factors have made clinical psychology an integral part of integrative care Its applicability to the range of specialties populations and levels of care adds to its increasing necessity in diverse healthcare settings The Handbook of Clinical Psychology in Medical Settings emphasizes evidence based care and practical strategies for hands on work with patients while illuminating the unique aspects of the practice of psychology within medical settings Skills are examined in depth for more effective work with patients more efficient teamwork with colleagues and better functioning within medical settings whether readers are involved in primary secondary or tertiary care or prevention Chapters also focus on ethical legal and financial issues as well as changes needed in training programs to ensure that the field keeps up with the evolution of care systems and service delivery Included in the Handbook s forward looking coverage Psychology and population health Core competencies for success in medical settings Evidence based practice and practice based evidence Marketing health psychology both within and outside the medical setting Competency for diverse populations Plus chapters devoted to specific specialties and settings from cardiology to women s health Comprehensive yet highly readable the Handbook of Clinical Psychology in Medical Settings is a practice building resource for health psychologists clinical psychologists and primary care physicians

Renewable Energy Sources and Climate Change Mitigation

Ottmar Edenhofer, Ramón Pichs-Madruga, Youba Sokona, Kristin Seyboth, Susanne Kadner, Timm Zwickel, Patrick Eickemeier, Gerrit Hansen, Steffen Schlömer, Christoph von Stechow, Patrick Matschoss, 2011-11-21 This Intergovernmental Panel on Climate Change Special Report IPCC SRREN assesses the potential role of renewable energy in the mitigation of climate change It covers the six most important renewable energy sources bioenergy solar geothermal hydropower ocean and wind energy as well as their integration into present and future energy systems It considers the environmental and social consequences associated with the deployment of these technologies and presents strategies to overcome technical as well as non technical obstacles to their application and diffusion SRREN brings a broad spectrum of technology specific experts together with scientists studying energy systems as a whole Prepared following strict IPCC procedures it presents an impartial assessment of the current state of knowledge it is policy relevant but not policy prescriptive SRREN is an invaluable

assessment of the potential role of renewable energy for the mitigation of climate change for policymakers the private sector and academic researchers **Rural Politics in Contemporary China** Emily T. Yeh, Kevin O'Brien, Jingzhong Ye, 2016-01-22

This collection provides an overview of China's rural politics bringing scholarship on agrarian politics from various social science disciplines together in one place. The twelve contributions spanning history, anthropology, sociology, environmental studies, political science, and geography address enduring questions in peasant studies including the relationship between states and peasants, taxation, social movements, rural-urban linkages, land rights, and struggles, gender relations, and environmental politics. Taking rural politics as the power-inflected processes and struggles that shape access and control over resources in the countryside as well as the values, ideologies, and discourses that shape those processes, the volume brings research on China into conversation with the traditions and concerns of peasant studies scholarship. It provides both an introduction to those unfamiliar with Chinese politics as well as in-depth new research for experts in the field. This book was published as a special issue of the *Journal of Peasant Studies*.

Theories of Programming Cliff B. Jones, Jayadev Misra, 2021-09-26 Sir Tony Hoare has had an enormous influence on computer science from the Quicksort algorithm to the science of software development, concurrency, and program verification. His contributions have been widely recognised. He was awarded the ACM's Turing Award in 1980, the Kyoto Prize from the Inamori Foundation in 2000, and was knighted for services to education and computer science by Queen Elizabeth II of England in 2000. This book presents the essence of his various works: the quest for effective abstractions, both in his own words as well as chapters written by leading experts in the field, including many of his research collaborators. In addition, this volume contains biographical material, his Turing award lecture, the transcript of an interview, and some of his seminal papers. Hoare's foundational paper, "An Axiomatic Basis for Computer Programming," presented his approach, commonly known as Hoare Logic, for proving the correctness of programs by using logical assertions. Hoare Logic and subsequent developments have formed the basis of a wide variety of software verification efforts. Hoare was instrumental in proposing the Verified Software Initiative, a cooperative international project directed at the scientific challenges of large-scale software verification, encompassing theories, tools, and experiments. Tony Hoare's contributions to the theory and practice of concurrent software systems are equally impressive. The process algebra called Communicating Sequential Processes (CSP) has been one of the fundamental paradigms, both as a mathematical theory to reason about concurrent computation as well as the basis for the programming language Occam. CSP served as a framework for exploring several ideas in denotational semantics, such as powerdomains, as well as notions of abstraction and refinement. It is the basis for a series of industrial-strength tools which have been employed in a wide range of applications. This book also presents Hoare's work in the last few decades. These works include a rigorous approach to specifications in software engineering practice, including procedural and data abstractions, data refinement, and a modular theory of designs. More recently, he has worked with collaborators to develop Unifying Theories of Programming (UTP). Their goal is to identify

the common algebraic theories that lie at the core of sequential concurrent reactive and cyber physical computations The Rise and Fall of Carbon Emissions Trading Declan Kuch,2015-07-29 This book presents the results of the first full scale emissions trading schemes in Australia and internationally arguing these schemes will not be sufficient to civilize markets and prevent dangerous climate change Instead it articulates the ways climate policy needs to confront the collective nature of our predicament *Impact Cratering* G. R. Osinski,E. Pierazzo,2012-12-26 Impact cratering is arguably the most ubiquitous geological process in the Solar System It has played an important role in Earth s history shaping the geological landscape affecting the evolution of life and generating economic resources However it was only in the latter half of the 20th century that the importance of impact cratering as a geological process was recognized and only during the past couple of decades that the study of meteorite impact structures has moved into the mainstream This book seeks to fill a critical gap in the literature by providing an overview text covering broad aspects of the impact cratering process and aimed at graduate students professionals and researchers alike It introduces readers to the threat and nature of impactors the impact cratering process the products and the effects both destructive and beneficial A series of chapters on the various techniques used to study impact craters provide a foundation for anyone studying impact craters for the first time *Islamic Business and Performance Management* Achmad Firdaus,Khaliq Ahmad,2023-05-31 This unique book discovers a new dimension in the study of strategic and performance management in Islamic Business studies It addresses the missing link of spirituality from modern day organizational structure in the presence of high tech pressure in all areas of human endeavours The authors propose an integrated study of Islamic business approach to strategic and performance management systems to achieve sustainable organizational performance The book explores employees wellbeing and organizations perceiving work environment as a spiritual pathway to cultivate values in Islamic business ecosystem to sustain humanity It is all about care empathy and sustenance of others about truthfulness and management being truthful to themselves and others and endeavouring to live their values more effusively while performing their work The book stresses the impact of spirituality in performance management concluding that for any organization to run efficiently spirituality is the core component to attain happiness contentment and success The book will be of interest to a variety of management scholars including those researching and studying performance management talent management strategic management and business ethics

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