



## GRADE 11 PHYSICAL SCIENCES NABCH TEST

### QUESTION 1

Answer questions one to seven in the spaces provided in the following questions. Choose the correct answer and write ONLY the LETTER (a-d) next to the QUESTION NUMBER in the space provided on your test paper (Example 1.1.1).

- 1.1 The graph below shows the relationship between the net force and the acceleration for two masses A and B.



Which one of the following statements is true?

- Force is directly proportional to acceleration.
  - Force is inversely proportional to acceleration.
  - Force is directly proportional to mass.
  - Force is inversely proportional to mass.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0 N?
- Three forces acting on an object at right angles.
  - Two forces acting on an object in the same direction.
  - Two forces acting on an object in opposite directions.
  - A single force acting on an object.
- 1.3 Which of the statements below best describes 'weight'?
- It is the force exerted by an object on the Earth's surface.
  - It is the force exerted by the Earth on an object.
  - It is the force exerted by an object on the Earth's surface.
  - It is the force exerted by the Earth on an object.
- 1.4 The vector of an object...
- is the same as the object's weight.
  - is the same as the object's mass.
  - is the same as the object's acceleration.
  - is the same as the object's velocity.
- 1.5 An object has a weight  $W$  in newtons. This denotes a value of the vector of resultant  $W$ , and the value of the weight is a lot of the weight  $W$  on the

surface of the Earth.

- 10
  - 100
  - 1000
  - 10000
- 1.6 A force is applied to a mass with a force of 1000 N. The mass is moved 10 m. The work done is...
- 10000 J
  - 1000 J
  - 100 J
  - 10 J

100

### QUESTION 2

The grade 11 learners have had time to work from one way to determine the resultant of two vectors. One way is the component method. They want to use the vector to find the resultant of the two vectors in a triangle by the tip-to-tail method. The learners' strategy...

- is to draw the two vectors from the same origin.
- is to draw the two vectors from the same origin and then draw the resultant from the tip of one vector to the tip of the other.



Answer the following questions.

- 1.1 The resultant vector R is the vector...
- 1.2 The resultant vector R is the vector...
- 1.3 The resultant vector R is the vector...
- 1.4 The resultant vector R is the vector...
- 1.5 The resultant vector R is the vector...

100

# Physical Science Papermemo 2014 November

**C Cleary**



## **Physical Science Papermemo 2014 November:**

**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 The History of the Study of Landforms or the Development of Geomorphology, Volume 5 T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume's objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology *Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, Committee on Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions, 2017-02-06 The Office of the Under Secretary of Defense Personnel Readiness referred to throughout this report as P R is responsible for the total force management of all Department of Defense DoD components including the recruitment readiness and retention of personnel Its work and policies are supported by a number of organizations both within DoD including the Defense Manpower Data Center DMDC and externally including the federally funded research and development centers FFRDCs that work for DoD P R must be able to answer questions for the Secretary of Defense such as how to recruit people with an aptitude for and

interest in various specialties and along particular career tracks and how to assess on an ongoing basis service members career satisfaction and their ability to meet new challenges P R must also address larger scale questions such as how the current realignment of forces to the Asia Pacific area and other regions will affect recruitment readiness and retention While DoD makes use of large scale data and mathematical analysis in intelligence surveillance reconnaissance and elsewhere exploiting techniques such as complex network analysis machine learning streaming social media analysis and anomaly detection these skills and capabilities have not been applied as well to the personnel and readiness enterprise Strengthening Data Science Methods for Department of Defense Personnel and Readiness Missions offers and roadmap and implementation plan for the integration of data analysis in support of decisions within the purview of P R

*Carbon Capture and Storage* Ian Havercroft, Richard Macrory Hon KC, Richard Stewart, 2018-02-08 Carbon Capture and Storage CCS is increasingly viewed as one of the most significant ways of dealing with greenhouse gas emissions Critical to realising its potential will be the design of effective legal regimes at national and international level that can handle the challenges raised but without stifling a new technology of potential great public benefit These include long term liability for storage regulation of transport the treatment of stored carbon under emissions trading regimes issues of property ownership and increasingly the sensitivities of handling the public engagement and perception Following its publication in 2011 Carbon Capture and Storage quickly became required reading for all those interested in or engaged by the need to implement regulatory approaches to CCS The intervening years have seen significant developments globally Earlier legislative models are now in force providing important lessons for future legal design Despite these developments the growth of the technology has been slower in some jurisdictions than others This timely new edition will update and critically assess these updates and provide context for the development of CCS in 2018 and beyond

*Freedom's Laboratory* Audra J. Wolfe, 2020-08-04 The Cold War ended long ago but the language of science and freedom continues to shape public debates over the relationship between science and politics in the United States Scientists like to proclaim that science knows no borders Scientific researchers follow the evidence where it leads their conclusions free of prejudice or ideology But is that really the case In Freedom s Laboratory Audra J Wolfe shows how these ideas were tested to their limits in the high stakes propaganda battles of the Cold War Wolfe examines the role that scientists in concert with administrators and policymakers played in American cultural diplomacy after World War II During this period the engines of US propaganda promoted a vision of science that highlighted empiricism objectivity a commitment to pure research and internationalism Working both overtly and covertly wittingly and unwittingly with governmental and private organizations scientists attempted to decide what exactly they meant when they referred to scientific freedom or the US ideology More frequently however they defined American science merely as the opposite of Communist science Uncovering many startling episodes of the close relationship between the US government and private scientific groups Freedom s Laboratory is the first work to explore science s link to US propaganda and psychological

warfare campaigns during the Cold War Closing in the present day with a discussion of the 2017 March for Science and the prospects for science and science diplomacy in the Trump era the book demonstrates the continued hold of Cold War thinking on ideas about science and politics in the United States     Bulk Collection of Signals Intelligence National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report     **The War Report** Annysa Bellal, 2015-12-10 This War Report provides detailed information on every armed conflict which took place during 2014 offering an unprecedented overview of the nature range and impact of these conflicts and the legal issues they created In Part I the Report describes its criteria for the identification and classification of armed conflicts under international law and the legal consequences that flow from this classification It sets out a list of armed conflicts in 2014 categorising each as international non international or a military occupation with estimates of civilian and military casualties In Part II each of these conflicts are examined in more detail with an overview of the belligerents means and methods of warfare the applicable treaties and rules and any prosecutions for investigations into or robust allegations of war crimes Part III of the Report provides detailed thematic analysis of key legal developments which arose in the context of these conflicts allowing for a more in depth reflection on cross cutting questions and controversies The Report gives a full and accessible overview of armed conflicts in 2014 It should be the first port of call for everyone working in the field     *The Source of All Things* Reinhard Friedl, 2025-08-22 In the tradition of Henry Marsh s Do No Harm Reinhard Friedl s The Source of All Things is a heart surgeon s personal investigation of the human heart moving from his riveting clinical experiences to a more poetic understanding of its workings The heart is our most important organ Yet despite that it has not changed since the appearance of Homo sapiens 300 000 years ago it is also our most mysterious In most human cultures it is seen as the source of love sympathy joy courage strength and wisdom What if the heart could answer questions neurosciences can t begin to Having witnessed the extraordinary complexity and unpredictability of human hearts in the operating theatre each one individual like a fingerprint heart surgeon Reinhard Friedl looked again at this primitive pump to reconcile it with his

experiences from thousands of heart operations In this book he presents findings from various scientific disciplines such as secret connections of the heart and brain and their influence on emotions and consciousness He reveals the miracle that is the heart that we speak about so often yet is strangely foreign to many human beings Full of compelling patient stories The Source of All Things ends with a plea that we recognize the heart's wisdom and adopt a more heart centered way of living leading to greater health and more joy Florida Springs Christopher F. Meindl, 2024-10-15 This book provides a clear and comprehensive overview of the geography history science and politics of Florida's freshwater springs informing readers about the deep past and current issues facing these natural wonders of the state How We Teach Science John L. Rudolph, 2019-06-01 A former Wisconsin high school science teacher makes the case that how and why we teach science matters especially now that its legitimacy is under attack Why teach science The answer to that question will determine how it is taught Yet despite the enduring belief in this country that science should be taught there has been no enduring consensus about how or why This is especially true when it comes to teaching scientific process Nearly all of the basic knowledge we have about the world is rock solid The science we teach in high schools in particular laws of motion the structure of the atom cell division DNA replication the universal speed limit of light is accepted as the way nature works Everyone also agrees that students and the public more generally should understand the methods used to gain this knowledge But what exactly is the scientific method Ever since the late 1800s scientists and science educators have grappled with that question Through the years they've advanced an assortment of strategies ranging from the laboratory method to the five step method to science as inquiry to no method at all How We Teach Science reveals that each strategy was influenced by the intellectual cultural and political circumstances of the time In some eras learning about experimentation and scientific inquiry was seen to contribute to an individual's intellectual and moral improvement while in others it was viewed as a way to minimize public interference in institutional science John Rudolph shows that how we think about and teach science will either sustain or thwart future innovation and ultimately determine how science is perceived and received by the public *A Homology Theory for Smale Spaces* Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basics sets for an Axiom A diffeomorphism It is based on two ingredients The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite to one factor map The second is Krieger's dimension group invariant for shifts of finite type He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups The existence of such a theory was proposed by Bowen in the 1970s **International Intellectual Property** Daniel J. Gervais, 2015-01-30 International Intellectual Property A Handbook of Contemporary Research provides researchers and practitioners of international intellectual property law with the necessary tools to understand the latest debates in this incredibly dynamic and complex **The Routledge Social Science Handbook of AI** Anthony Elliott, 2021-07-12 The

Routledge Social Science Handbook of AI is a landmark volume providing students and teachers with a comprehensive and accessible guide to the major topics and trends of research in the social sciences of artificial intelligence AI as well as surveying how the digital revolution from supercomputers and social media to advanced automation and robotics is transforming society culture politics and economy The Handbook provides representative coverage of the full range of social science engagements with the AI revolution from employment and jobs to education and new digital skills to automated technologies of military warfare and the future of ethics The reference work is introduced by editor Anthony Elliott who addresses the question of relationship of social sciences to artificial intelligence and who surveys various convergences and divergences between contemporary social theory and the digital revolution The Handbook is exceptionally wide ranging in span covering topics all the way from AI technologies in everyday life to single purpose robots throughout home and work life and from the mainstreaming of human machine interfaces to the latest advances in AI such as the ability to mimic and improve on many aspects of human brain function A unique integration of social science on the one hand and new technologies of artificial intelligence on the other this Handbook offers readers new ways of understanding the rise of AI and its associated global transformations Written in a clear and direct style the Handbook will appeal to a wide undergraduate audience

**Road Vehicle Automation 4** Gereon Meyer, Sven Beiker, 2017-06-28 This book is the fourth volume of the sub series of the Lecture Notes in Mobility dedicated to Road Vehicle Automation Its chapters have been written by researchers engineers and analysts from all around the globe Topics covered include public sector activities human factors and challenges ethical legal energy and technology perspectives vehicle systems development as well as transportation infrastructure and planning The book is based on the Automated Vehicles Symposium which took place in San Francisco California USA in July 2016

**The Age of Radiance** Craig Nelson, 2014-03-25 Radiation is a complex and paradoxical concept staggering amounts of energy flow from seemingly inert rock and that energy is both useful and dangerous While nuclear energy affects our everyday lives from nuclear medicine and food irradiation to microwave technology its invisible rays trigger biological damage birth defects and cellular mayhem From the end of the nineteenth century through the use of the atomic bomb in World War II to the twenty first century s confrontation with the dangers of nuclear power Craig Nelson illuminates a pageant of fascinating historical figures Enrico Fermi Marie and Pierre Curie Albert Einstein FDR Robert Oppenheimer and Ronald Reagan among others He reveals many little known details including how Jewish refugees fleeing Hitler transformed America from a country that created light bulbs and telephones into one that split atoms how the most grotesque weapon ever invented could realize Alfred Nobel s lifelong dream of global peace how emergency workers and low level utility employees fought to contain a run amok nuclear reactor while wondering if they would live or die Brilliantly fascinating and remarkably accessible The Age of Radiance traces mankind s complicated and difficult relationship with the dangerous power it discovered and made part of civilization

**Spacecraft Dynamics and Control** Enrico Canuto, Carlo

Novara, Donato Carlucci, Carlos Perez-Montenegro, Luca Massotti, 2018-03-08 *Spacecraft Dynamics and Control The Embedded Model Control Approach* provides a uniform and systematic way of approaching space engineering control problems from the standpoint of model based control using state space equations as the key paradigm for simulation design and implementation The book introduces the Embedded Model Control methodology for the design and implementation of attitude and orbit control systems The logic architecture is organized around the embedded model of the spacecraft and its surrounding environment The model is compelled to include disturbance dynamics as a repository of the uncertainty that the control law must reject to meet attitude and orbit requirements within the uncertainty class The source of the real time uncertainty estimation prediction is the model error signal as it encodes the residual discrepancies between spacecraft measurements and model output The embedded model and the uncertainty estimation feedback noise estimator in the book constitute the state predictor feeding the control law Asymptotic pole placement exploiting the asymptotes of closed loop transfer functions is the way to design and tune feedback loops around the embedded model state predictor control law reference generator The design versus the uncertainty class is driven by analytic stability and performance inequalities The method is applied to several attitude and orbit control problems The book begins with an extensive introduction to attitude geometry and algebra and ends with the core themes state space dynamics and Embedded Model Control Fundamentals of orbit attitude and environment dynamics are treated giving emphasis to state space formulation disturbance dynamics state feedback and prediction closed loop stability Sensors and actuators are treated giving emphasis to their dynamics and modelling of measurement errors Numerical tables are included and their data employed for numerical simulations Orbit and attitude control problems of the European GOCE mission are the inspiration of numerical exercises and simulations The suite of the attitude control modes of a GOCE like mission is designed and simulated around the so called mission state predictor Solved and unsolved exercises are included within the text and not separated at the end of chapters for better understanding training and application Simulated results and their graphical plots are developed through MATLAB Simulink code [Space Physics and Aeronomy, Space Weather Effects and Applications](#) Anthea J. Coster, Philip J. Erickson, Louis J.

Lanzerotti, 2021-04-21 Examines how solar and terrestrial space phenomena affect sophisticated technological systems Contemporary society relies on sophisticated technologies to manage electricity distribution communication networks transportation safety and myriad other systems The successful design and operation of both ground based and space based systems must consider solar and terrestrial space phenomena and processes *Space Weather Effects and Applications* describes the effects of space weather on various present day technologies and explores how improved instrumentation to measure Earth's space environment can be used to more accurately forecast changes and disruptions Volume highlights include Damage and disruption to orbiting satellite equipment by solar particles and cosmic rays Effects of space radiation on aircraft at high altitudes and latitudes Response of radio and radar based systems to solar bursts Disturbances to the



propagation of radio waves caused by space weather How geomagnetic field changes impact ground based systems such as pipelines Impacts of human exposure to the space radiation environment The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals Find out more about the Space Physics and Aeronomy collection in this Q A with the Editors in Chief

**A Lever Long Enough** Robert McCaughey, 2014-06-03 In this comprehensive social history of Columbia University's School of Engineering and Applied Science SEAS Robert McCaughey combines archival research with oral testimony and contemporary interviews to build a critical and celebratory portrait of one of the oldest engineering schools in the United States McCaughey follows the evolving occasionally rocky and now integrated relationship between SEAS's engineers and the rest of the Columbia University student body faculty and administration He also revisits the interaction between the SEAS staff and the inhabitants and institutions of the City of New York where the school has resided since its founding in 1864 McCaughey compares the historical struggles and achievements of the school's engineers with their present day battles and accomplishments and he contrasts their teaching and research approaches with those of their peers at other free standing and Ivy League engineering schools What begins as a localized history of a school striving to define itself within a university known for its strengths in the humanities and the social sciences becomes a wider story of the transformation of the applied sciences into a critical component of American technology and education

Quantum Legacies David Kaiser, 2020-03-25 A series of engaging essays that explore iconic moments of discovery and debate in physicists ongoing quest to understand the quantum world The ideas at the root of quantum theory remain stubbornly famously bizarre a solid world reduced to puffs of probability particles that tunnel through walls cats suspended in zombielike states neither alive nor dead and twinned particles that share entangled fates For more than a century physicists have grappled with these conceptual uncertainties while enmeshed in the larger uncertainties of the social and political worlds around them a time pocked by the rise of fascism cataclysmic world wars and a new nuclear age In Quantum Legacies David Kaiser introduces readers to iconic episodes in physicists still unfolding quest to understand space time and matter at their most fundamental In a series of vibrant essays Kaiser takes us inside moments of discovery and debate among the great minds of the era Albert Einstein Erwin Schrödinger Stephen Hawking and many more who have indelibly shaped our understanding of nature as they have tried to make sense of a messy world Ranging across space and time the episodes span the heady 1920s the dark days of the 1930s the turbulence of the Cold War and the peculiar political realities that followed In those eras as in our own researchers ambition has often been to transcend the vagaries of here and now to contribute lasting insights into how the world works that might reach beyond a given researcher's limited view In Quantum Legacies Kaiser unveils the difficult and unsteady work required to forge some shared understanding between individuals and across generations and in doing so he illuminates the deep ties between scientific exploration and the human

condition     *Environmental Risk Assessment* Ted Simon, 2014-02-05 The purpose of risk assessment is to support science based decisions about how to solve complex societal problems The problems we face in the twenty first century have many social political and technical complexities Environmental risk assessment in particular is of increasing importance as a means of seeking to address the potential effects of

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## **Table of Contents Physical Sceince Papermemo 2014 November**

1. Understanding the eBook Physical Sceince Papermemo 2014 November
  - The Rise of Digital Reading Physical Sceince Papermemo 2014 November
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Sceince Papermemo 2014 November
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Physical Sceince Papermemo 2014 November
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Sceince Papermemo 2014 November
  - Personalized Recommendations
  - Physical Sceince Papermemo 2014 November User Reviews and Ratings
  - Physical Sceince Papermemo 2014 November and Bestseller Lists
5. Accessing Physical Sceince Papermemo 2014 November Free and Paid eBooks
  - Physical Sceince Papermemo 2014 November Public Domain eBooks
  - Physical Sceince Papermemo 2014 November eBook Subscription Services
  - Physical Sceince Papermemo 2014 November Budget-Friendly Options

6. Navigating Physical Sceince Papermemo 2014 November eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Sceince Papermemo 2014 November Compatibility with Devices
  - Physical Sceince Papermemo 2014 November Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Sceince Papermemo 2014 November
  - Highlighting and Note-Taking Physical Sceince Papermemo 2014 November
  - Interactive Elements Physical Sceince Papermemo 2014 November
8. Staying Engaged with Physical Sceince Papermemo 2014 November
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Sceince Papermemo 2014 November
9. Balancing eBooks and Physical Books Physical Sceince Papermemo 2014 November
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Sceince Papermemo 2014 November
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Sceince Papermemo 2014 November
  - Setting Reading Goals Physical Sceince Papermemo 2014 November
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Sceince Papermemo 2014 November
  - Fact-Checking eBook Content of Physical Sceince Papermemo 2014 November
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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