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Basic Education  
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NATIONAL  
SENIOR CERTIFICATE

GRADE 11

PHYSICAL SCIENCES: PHYSICS (P1)

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**FULL MEMORANDUM**  
**GRADE 11 PHYSICS**  
**FINAL EXAM**

Physics (P1)

Grade 11

November 2018

**QUESTION 1: MULTIPLE-CHOICE QUESTIONS**

Various options are provided as possible answers to the following questions. Indicate the correct option by writing (A), (B), (C) or (D) in the answer space, e.g. 1.1 (A).

1.1. The velocity of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.2. The acceleration of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.3. The displacement of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.4. The distance of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.5. The speed of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.6. The time of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.7. The mass of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.8. The weight of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.9. The force of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.10. The energy of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.11. The power of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.12. The momentum of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.13. The impulse of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.14. The work of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

1.15. The heat of an object is

- (A) a scalar quantity.
- (B) a vector quantity.
- (C) a scalar quantity that can be negative.
- (D) a vector quantity that can be negative.

# Physics Pmemorandum November 2014

**David Kaiser**



## **Physics Pmemorandum November 2014:**

**Stretching and Exploiting Thresholds for High-Order War** Ben Connable, Jason H. Campbell, Dan Madden, 2016-05-05 Since 9 11 Russia China and Iran have successfully exploited or stretched U S thresholds for high order war in order to further their strategic ends and in the process undermine U S interests Each of these countries has made expert use of some combination of measures short of war to enact its strategies This report describes those measures and how these nation states use them and explains why U S notions of thresholds might be outdated *Treaties in Force* ,2016

Physics of Tsunamis Boris W. Levin, Mikhail Nosov, 2015-10-22 This second edition reflects significant progress in tsunami research monitoring and mitigation within the last decade Primarily meant to summarize the state of the art knowledge on physics of tsunamis it describes up to date models of tsunamis generated by a submarine earthquake landslide volcanic eruption meteorite impact and moving atmospheric pressure inhomogeneities Models of tsunami propagation and run up are also discussed The book investigates methods of tsunami monitoring including coastal mareographs deep water pressure gauges GPS buoys satellite altimetry the study of ionospheric disturbances caused by tsunamis and the study of paleotsunamis Non linear phenomena in tsunami source and manifestations of water compressibility are discussed in the context of their contribution to the wave amplitude and energy The practical method of calculating the initial elevation on a water surface at a seismotectonic tsunami source is expounded Potential and eddy traces of a tsunamigenic earthquake in the ocean are examined in terms of their applicability to tsunami warning The first edition of this book was published in 2009 Since then a few catastrophic events occurred including the 2011 Tohoku tsunami which is well known all over the world The book is intended for researchers students and specialists in oceanography geophysics seismology hydro acoustics geology and geomorphology including the engineering and insurance industries **United States Department of State Treaties in Force; A List of Treaties and Other International Agreements of the United States in Force on January 1, 2018 ,**

Collisions Alec Nevala-Lee, 2025-06-10 From the acclaimed biographer of Buckminster Fuller a riveting biography of the Nobel Prize winning physicist who became the greatest scientific detective of the twentieth century To his admirers Luis W Alvarez was the most accomplished inventive and versatile experimental physicist of his generation During World War II he achieved major breakthroughs in radar played a key role in the Manhattan Project and served as the lead scientific observer at the bombing of Hiroshima In the decades that followed he revolutionized particle physics with the hydrogen bubble chamber developed an innovative X ray method to search for hidden chambers in the Pyramid of Chephren and shot melons at a rifle range to test his controversial theory about the Kennedy assassination At the very end of his life he collaborated with his son to demonstrate that an asteroid impact was responsible for the extinction of the dinosaurs igniting a furious debate that raged for years after his death Alvarez was also a combative and relentlessly ambitious figure widely feared by his students and associates who testified as a government witness at the security hearing that destroyed the public career of

his friend and colleague J Robert Oppenheimer In the first comprehensive biography of Alvarez Alec Nevala Lee vividly recounts one of the most compelling untold stories in modern science a narrative overflowing with ideas lessons and anecdotes that will fascinate anyone with an interest in how genius and creativity collide with the problems of an increasingly challenging world

Treaties In Force: A List Of Treaties and Other International Agreements of the United States in Force on January 1, 2016 State Dept., Office of the Legal Adviser, Treaty Affairs Staff,2017-02-02 Treaties in Force is prepared by the Department of State for the purpose of providing information on treaties and other international agreements to which the United States has become a party and which are carried on the records of the Department of State as being in force as of its stated publication date January 1 2016 Treaties in Force is arranged in two sections Section 1 includes bilateral treaties and other international agreements listed by country or other international entity with subject headings under each entry Arrangements with territorial possessions of a country appear at the end of the entry for that country In some cases treaties and international agreements applicable to a territory prior to its independence are included in the entry for that country on the basis of its assumption of treaty obligations upon becoming independent as noted at the beginning of the entry for that country For convenience some treaties and agreements concluded with countries whose name or statehood status has changed continue to be listed under the name in use at the time the agreement was concluded if the title of the treaty or agreement has not been formally amended Section 2 lists multilateral treaties and other international agreements to which the United States is a party arranged by subject The depositary is the authoritative source for a current list of parties and information on other matters concerning the status of the agreement and status information often changes Information is provided on the depositary for the agreement in question and contact information including an Internet site is provided for the depositary where available Related products International Foreign Affairs resources collection can be found here <https://bookstore.gpo.gov/catalog/international-foreign-affairs>

### **Historical Guide to NASA and the Space Program** Ann

Beardsley,C. Tony Garcia,Joseph Sweeney,2016-09-09 NASA the National Aeronautics and Space Administration created in the wake of the Space Act has and continues to accomplish those precepts every day With many hundreds of satellites launched into space and close to 200 human spaceflights NASA is a proven leader in space exploration Most of the US space exploration efforts have been led by NASA including the Apollo moon landing missions the Skylab space station and later the Space Shuttle Currently NASA is supporting the International Space Station and is overseeing the development of the Orion Multi Purpose Crew Vehicle the Space Launch System and Commercial Crew vehicles NASA is also responsible for the Launch Services Program which provides oversight of launch operations and countdown management for unmanned NASA launches The Historical Guide to NASA and the Space Program contains a chronology an introduction appendixes and an extensive bibliography The dictionary section has over 500 cross referenced entries on space missions astronauts technical terms space shuttles satellites and the international space station This book is an excellent access point for students

researchers and anyone wanting to know more about NASA and space exploration

### **Storytelling Organizational**

**Practices** David M. Boje, 2014-06-20 Once upon a time the practice of storytelling was about collecting interesting stories about the past and converting them into soundbite pitches. Now it is more about foretelling the ways the future is approaching the present, prompting a re-storying of the past. Storytelling has progressed and is about a diversity of voices, not just one teller of one past; it is how a group or organization of people negotiates the telling of history and the telling of what future is arriving in the present. With the changes in storytelling practices and theory, there is a growing need to look at new and different methodologies. Within this exciting new book, David M. Boje develops new ways to ask questions in interviews and make observations of practice that are about storytelling the future. This, after all, is where management practice concentrates its storytelling, while much of the theory and method work is all about how the past might recur in the future. *Storytelling Organizational Practices* takes the reader on a journey from looking at narratives of past experience through looking at living stories of emergence in the present to looking at how the future is arriving in ways that prompts a re-storying of the past.

**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.

### **Symmetry in Geometry and Analysis, Volume 1**

Michael Pevzner, Hideko Sekiguchi, 2025-02-09 *Symmetry in Geometry and Analysis* is a Festschrift honoring Toshiyuki Kobayashi. The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims, France, and in September 2022 in Tokyo, Japan. These contributions highlight the profound impact of Prof. Kobayashi's pioneering ideas, groundbreaking discoveries, and significant achievements in the development of analytic representation.

theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades The first volume of the Festschrift includes a survey article on Kobayashi's innovative contributions to Mathematics emphasizing their influence and introducing new perspectives across various fields Original articles contained in Volume 1 focus on differential geometry with symmetries as well as algebraic and geometric aspects of representation theory of reductive Lie groups and related topics Contributions are by Velleda Baldoni Dan Barbasch Leticia Barchini Sigiswald Barbier Yves Benoist Sam Claerebout Michael Eastwood Wee Teck Gan William M Goldman Roger Howe Kazuki Kannaka Toshihisa Kubo Hung Yean Loke Jia Jun Ma Reiko Miyaoka Kento Ogawa Takayuki Okuda Yoshiki Oshima Paul mile Paradan Annegret Paul Michael Pevzner Yiannis Sakellaridis Atsumi Sasaki Gordan Savin Hideko Sekiguchi Binyong Sun Yuichiro Tanaka Koichi Tojo Peter Trapa Mich le Vergne Joseph A Wolf Kayue Daniel Wong and Chen Bo Zhu The Mathematical Work of Toshiyuki Kobayashi is available open access under a Creative Commons Attribution 4 0

International License via link [springer.com](https://www.springer.com) **Energy and Water Development Appropriations for 2016** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2015 Emergency War

Plan Sean M. Maloney, 2021-02 Using strategic plans intelligence analysis and other materials that have only recently been declassified Emergency War Plan examines the theory and practice of nuclear deterrence during the 1945-1960 period of the Cold War **50 Years Of Science In Singapore** Bernard Tiong Gie Tan, Hock Lim, Kok Khoo Phua, 2016-12-12 As part of

the commemorative book series on Singapore's 50 years of nation building this important compendium traces the history and development of the various sectors of Singapore science in the last 50 years or so The book covers the government agencies responsible for science funding and research policy the academic institutions and departments who have been in the forefront of the development of the nation's scientific manpower and research the research centres and institutes which have been breaking new ground in both basic and applied science research science museums and education and the academic and professional institutions which the scientific community has set up to enable Singapore scientists to serve the nation more effectively Each article is chronicled by eminent authors who have played important roles and made significant contributions in shaping today's achievement of science in Singapore Professionals academics students and the general public will find this volume a useful reference material and an inspirational easy read **Space Studies Board Annual Report 2014** National

Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2015-04-10 The original charter of the Space Science Board was established in June 1958 3 months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of

Defense as well as to Congress Space Studies Board Annual Report 2014 covers a message from the chair of the SSB David N Spergel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB s collaboration with other National Research Council units assures the quality of the SSB reports acknowledges the audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers and researchers

**Tunnel Visions** Michael Riordan, Lilian Hoddeson, Arienne W. Kolb, 2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC s cancelation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American

*Metallic Materials Properties Development and Standardization (MMPDS) :b MMPDS-09: Miscellaneous alloys & hybrid materials ,2014* MMPDS 09 supersedes MMPDS 08 and prior editions of the MMPDS as well as all editions of MIL HDBK 5 Metallic materials and elements for aerospace vehicle structures handbook that was maintained by the U S Air Force The last edition MIL HDBK 5J was cancelled by the U S Air Force in March 2006 This document contains design information on the mechanical and physical properties of metallic materials and joints commonly used in aircraft and aerospace vehicle structures All information contained in this Handbook has been reviewed and approved using a standardized process The development and ongoing maintenance process involves certifying agencies including the FAA DoD and NASA and major material suppliers and material users worldwide P i

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

Commerce, Justice, Science, and Related Agencies Appropriations for 2017: Justification of the budget estimates United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2016

*CERN Courier*, 2015

**The Human Side of Cyber Conflict** Panayotis A. Yannakogeorgos, John P. Geis (II), 2016 In response to a tasking from the Air Force chief of staff the Air Force Research Institute conducted a review of how the service organizes educates trains and equips its cyber workforce The resulting findings were used to develop recommendations for how the Air Force should recruit educate train and develop cyber operators from the time they are potential accessions until they become senior leaders in the enlisted and officer corps This study s discoveries analyses and recommendations are aimed at guiding staff officers and senior leaders alike as they consider how to develop a future cyber workforce that supports both Air Force and US Cyber Command missions across the range of military operations Back cover



## Embracing the Beat of Expression: An Emotional Symphony within **Physics Pmemorandum November 2014**

In a world consumed by monitors and the ceaseless chatter of immediate interaction, the melodic elegance and emotional symphony created by the written term often diminish in to the background, eclipsed by the persistent noise and distractions that permeate our lives. But, set within the pages of **Physics Pmemorandum November 2014** a stunning fictional prize overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this interesting masterpiece conducts viewers on a mental journey, skillfully unraveling the concealed tunes and profound impact resonating within each cautiously crafted phrase. Within the depths of this moving assessment, we can investigate the book is central harmonies, analyze its enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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1 agranulocytes are a lymphocytes

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web 2 3 left side of the heart contains oxygenated blood right ventricle pumps blood to various parts of the body valves are present between auricles and ventricles to prevent

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