SUMECT: Physical Sciences PAPER 1

GRADE 10

TERM: Term 2 TYPE: Memorandum



#### Mid-Year Examination

#### Instructions & Information:

- If the candidate answered the question TWCE, mark only the FIRST attempt.
- If the candidate crossed out an answer and did not each it, mark the prossed out answer.
- Consistent accuracy applies to ALL aspects of the marking guidelines.
- Assuming values/ answers in order to solve a problem is unacceptable.
- Where applicable and indicated, use "benefit of the doubt" and "positive marking" in favor of the cardioles.
- All marking is to be done in sed pen.
- Markers may not award half marks but can reward part marks in single digits.
- Where the memo states, "and any relevant answer" the marker must ensure the answer is correct according to the content of the subject. Such a "relevant" answer must be noted in a teacher like for future use.
- 9. Internal Moderators may use black pen. Mindscape & SACAI will moderate in green.

# **Physical Science June Exam 2013 Memorandum**

**Michael Hoelscher** 

#### **Physical Science June Exam 2013 Memorandum:**

Commerce, Justice, Science, and Related Agencies Appropriations for 2013 United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies, 2012 **World Congress on** Medical Physics and Biomedical Engineering 2018 Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott, 2018-05-29 This book vol 1 presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics a triennially organized joint meeting of medical physicists biomedical engineers and adjoining health care professionals Besides the purely scientific and technological topics the 2018 Congress will also focus on other aspects of professional involvement in health care such as education and training accreditation and certification health technology assessment and patient safety The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field div Chapter Evaluation of the Impact of an International Master of Advanced Studies in Medical Physics is available open access under a Creative Commons Attribution 3 0 IGO Licence via link springer com Telecommunications Research and Engineering at the Institute for Telecommunication Sciences of the Department of Commerce National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Telecommunications Research and Engineering at the Department of Commerce's Boulder Laboratories, 2015-11-30 The Department of Commerce operates two telecommunications research laboratories located at the Department of Commerce s Boulder Colorado campus the National Telecommunications and Information Administration s NTIA s Institute for Telecommunications Sciences ITS and the National Institute of Standards and Technology's NIST's Communications Technology Laboratory CTL ITS serves as a principal federal resource for solving the telecommunications concerns of federal agencies state and local governments private corporations and associations standards bodies and international organizations ITS could provide an essential service to the nation by being a principal provider of instrumentation and spectrum measurement services however the inter related shortages of funding staff and a coherent strategy limits its ability to fully function as a research laboratory This report examines the institute s performance resources and capabilities and the extent to which these meet customer needs The Boulder telecommunications laboratories currently play an important role in the economic vitality of the country and can play an even greater role given the importance of access to spectrum and spectrum sharing to the wireless networking and mobile cellular industries Research advances are needed to ensure the continued evolution and enhancement of the connected world the public has come to expect 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 Review of Department of Defense Test Protocols for Combat Helmets National Research Council, Division on Engineering and Physical Sciences, Board on Army Science and Technology, Committee on Review of Test Protocols Used by the DoD to Test Combat Helmets, 2014-03-31 Combat helmets have evolved considerably over the years from those used in World War I to today's Advanced Combat Helmet One of the key advances was the development of aramid fibers in the 1960s which led to today s Kevlar based helmets The Department of Defense is continuing to invest in research to improve helmet performance through better design and materials as well as better manufacturing processes Review of the Department of Defense Test Protocols for Combat Helmets considers the technical issues relating to test protocols for military combat helmets At the request of the DOD Director of Operational Test and Evaluation this report evaluates the adequacy of the Advanced Combat Helmet test protocol for both first article testing and lot acceptance testing including its use of the metrics of probability of no penetration and the upper tolerance limit used to evaluate backface deformation The report evaluates appropriate use of statistical techniques in gathering data adequacy of current helmet testing procedures procedures for the conduct of additional analysis of penetration and backface deformation data and scope of characterization testing relative to the benefit of the information obtained **Professional** Journal of the United States Army ,2015 Groovy Science David Kaiser, W. Patrick McCray, 2016-05-31 Did the Woodstock generation reject science or recreate it An enthralling study of a unique period in scientific history New Scientist Our general image of the youth of the late 1960s and early 1970s is one of hostility to things like missiles and mainframes and plastics and an enthusiasm for alternative spirituality and getting back to nature But this enlightening collection reveals that

the stereotype is overly simplistic In fact there were diverse ways in which the era s countercultures expressed enthusiasm for and involved themselves in science of a certain type Boomers and hippies sought a science that was both small scale and big picture as exemplified by the annual workshops on quantum physics at the Esalen Institute in Big Sur or Timothy Leary s championing of space exploration as the ultimate high Groovy Science explores the experimentation and eclecticism that marked countercultural science and technology during one of the most colorful periods of American history Demonstrate's that people and groups strongly ensconced in the counterculture also embraced science albeit in untraditional and creative ways Science Each essay is a case history on how the hippies repurposed science and made it cool For the academic historian Groovy Science establishes the deep mark on American culture made by the countercultural innovators For the non historian the book reads as if it were infected by the hippies democratic intent no jargon few convoluted sentences clear arguments and a sense of delight Nature In the late 1960s and 1970s the mind expanding modus operandi of the counterculture spread into the realm of science and sh t got wonderfully weird Neurophysiologist John Lilly tried to talk with dolphins Physicist Peter Phillips launched a parapsychology lab at Washington University Princeton physicist Gerard O Neill became an evangelist for space colonies Groovy Science is a new book of essays about this heady time Boing Boing The Edge: A New Cosmological Model For Inertia Michael Edward Mcculloch, 2014-07-11 The fundamental and very important property of inertia has never been well understood This book shows how inertia has puzzled many scientists such as Galileo and Mach and then presents a new theory that explains inertia for the first time and also predicts galaxy rotation without dark matter cosmic acceleration and some other anomalies Further evidence for and tests of the theory are presented and exciting applications such as new inertial launch methods and the theoretical possibility of faster than light travel will be discussed To allow readers to use the theory themselves some simple maths is included and to help explain the points made there are numerous cartoons by the author ICEL2015-10th International Conference on e-Learning Dr Carlton Watson, 2015-06-12 These proceedings represent the work of researchers participating in the 10th International Conference on e Learning ICEL 2015 which is being hosted this year by the College of the Bahamas Nassau on the 25 26 June 2015 ICEL is a recognised event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings display their work in progress and discuss conceptual advances in the area of e Learning It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of e Learning available to them With an initial submission of 91 abstracts after the double blind peer review process there are 41 academic Research papers and 2 PhD papers Research papers published in these Conference Proceedings These papers come from some many different countries including Australia Belgium Brazil Canada China Germany Greece Hong Kong Malaysia Portugal Republic of Macedonia Romania Slovakia South Africa Sweden United Arab Emirates UK and the USA A selection of the best papers those agreed by a panel

of reviewers and the editor will be published in a conference edition of EJEL the Electronic Journal of e Learning www ejel com These will be chosen for their quality of writing and relevance to the Journal's objective of publishing papers that offer new insights or practical help into the application e Learning **The Edge** Roger Pielke, 2016-09-13 Roger Pielke reveals how sports stars break the rules in their search for a competitive edge Both entertaining and thought provoking THE EDGE not only visits the battlefields in the war against cheating and corruption but also explores ways to ensure that the spirit of sport can survive in today s high tech highly professional world Drawing on controversies straight out of the headlines Pielke looks at doping match fixing fake amateurism and other ways of breaking the rules But are those rules and the values they reflect hopelessly outdated Wonderfully readable and scrupulously researched THE EDGE blends science and journalism to produce an unforgettable account of sport in crisis **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

**Atomic Power in Space II**, 2015 Beginning with a brief overview of the programs and systems developed through the late 1970s Atomic Power in Space II traces the development and use of space nuclear power systems including the missions and programs for which they were developed to the present day from preface Nuclear Weapons and the Environment John Perry, 2021-03-12 In Nuclear Weapons and the Environment John Perry highlights the environmental damage caused by nuclear device testing The failure of the Nuclear Proliferation Treaty and the continued proliferation of nuclear weapons is a grave risk to not only human life but to the environment Pointing to the unstable political situation between a variety of state and non state actors the remediation of nuclear test sites and the risks involved in the production of nuclear weapons Perry The Analogue Alternative James S. Small, 2013-06-17 makes a clear case for the dire importance of non proliferation We are in the midst of a digital revolution until recently the majority of appliances used in everyday life have been developed with analogue technology Now either at home or out and about we are surrounded by digital technology such as digital film audio systems computers and telephones From the late 1940s until the 1970s analogue technology was a genuine alternative to digital and the two competing technologies ran parallel with each other During this period a community of engineers scientists academics and businessmen continued to develop and promote the analogue computer At the height of the Cold War this community and its technology met with considerable success in meeting the urgent demand for high speed computing for use in the design and simulation of rockets aircraft and manned space vehicles The Analogue Alternative tracks the development commercialisation and ultimate decline of the electronic analogue computer in the USA and Britain It examines the roles played by technical economic and cultural factors in the competition between the alternative technologies but more importantly James Small demonstrates that non technical factors such as the role of military enterprise and the working practices of analogue engineers have been the most crucial in analogue s demise l This book will be of interest to students of the history and sociology of science and technology particularly computing It will also be relevant to those interested in technical change and innovation and the study of scientific cultures Zirconia Sam Stuart, 2013-10-22 Zirconia 3rd Edition Volume 1 provides a comprehensive coverage of the various areas of concerns in the zirconia industry The title first covers the various forms of zirconia and then proceeds to tackling the sources of zirconia Next the selection deals with methods of production The subsequent chapter covers the production trade and consumption of zirconia The text also talks about end uses of zirconia along with its price The book will be of great interest to professionals who are involved Military Review ,2015 Federal Register, 2013-12 But Will It Fly? Iver P. in the zirconia industry Cooper, 2025-09-17 Conventional aircraft today are propelled by the action of propellers or jets and powered by the internal combustion of petroleum fuels in piston turboprop or jet engines But other power sources powerplants and propulsion devices for airships as well as aircraft have been proposed and even experimented with over the last few centuries The power sources considered include human muscles steam batteries nuclear reactors and hydrogen fuel and the propulsion devices

include sails oars flapping wings rockets and cycloidal propellers This meticulously researched book presents the history of these unconventional aerial power and propulsion systems explains the underlying science and technology behind them and assesses the crucial question of practicality Big Science, Innovation, and Societal Contributions Shantha Liyanage, Markus Nordberg, Marilena Streit-Bianchi, 2024-03-12 Big Science Innovation and Societal Contributions offers a connection between Big Science and its societal impacts from a multidisciplinary perspective drawing on physics and astrophysics scholars to explain the reasoning behind their work and how such knowledge can be applied to everyday life Through simplifying complex scientific concepts Big Science Innovation and Societal Contributions explains the evolution of Big Science experiments and what it takes to manage and maintain complex scientific experiments with a human centred approach Further it examines the motivations behind international efforts to develop capital intensive and human resource rich large scale multi national scientific investments to solve fundamental research problems concerning our future Drawing on reliable scientific evidence multi disciplinary perspectives and personal insights from collider physics detectors accelerator and telescopes research the volume outlines the mechanisms benefits and methodologies as well as the potential challenges and short comings of Big Science to learn and reflect on for future initiatives. This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations Foundation Engineering Handbook Hsai-Yang Fang, 2013-06-29 More than ten years have passed since the first edition was published During that period there have been a substantial number of changes in geotechnical engineering especially in the applications of foundation engineering As the world population increases more land is needed and many soil deposits previously deemed unsuitable for residential housing or other construction projects are now being used Such areas include problematic soil regions mining subsidence areas and sanitary landfills To overcome the problems associated with these natural or man made soil deposits new and improved methods of analysis design and implementation are needed in foundation construction As society develops and living standards rise tall buildings transportation facilities and industrial complexes are increasingly being built Because of the heavy design loads and the complicated environments the traditional design concepts construction materials methods and equipment also need improvement Further recent energy and material shortages have caused additional burdens on the engineering profession and brought about the need to seek alternative or cost saving methods for foundation design and construction

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