



## 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
  - 120N and 20N
  - 60N and 40N
  - 80N and 40N

Use the circuit diagram below to answer QUESTIONS 1.4 and 1.5



- 1.4 The voltage over the parallel resistors will be:
- 5V
  - 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 X?

	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

# November 2013 Physics Paper 1 Memo

**Enrico Canuto, Carlo Novara, Donato  
Carlucci, Carlos Perez-  
Montenegro, Luca Massotti**

## **November 2013 Physics Paper 1 Memo:**

**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

**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 cancellation 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

Decision Making and Knowledge Decision Support Systems Anna Maria Gil-Lafuente, Constantin Zopounidis, 2014-12-01 This book presents recent advancements of research new methods and techniques applications and projects in decision making and decision support systems It explores expert systems and neural networks knowledge engineering and management fuzzy sets and systems and computational methods for optimization data analysis and decision making It presents applications in Economics Finance Management and Engineering The book undertakes to stimulate scientific exchange ideas and experiences in the field of decision making in Economy and Management Researchers and practitioners alike will benefit from this book when they are dealing with imprecision vagueness and uncertainty in the context of decision making

Formality of the Little  $\mathbb{N}$ -disks Operad Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in  $\mathbb{R}^n$  and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when  $n \geq 2$

*At Sea Against the Soviet Fleet* Bryan H. Leese, 2025-10-14 *At Sea Against the Soviet Fleet* is a history of the evolution of the United States Navy's Operational Intelligence culture that informs great power competition with China today *At Sea Against the Soviet Fleet* examines the critical transformation of naval intelligence during a pivotal era marked by the Cold War and the Vietnam conflict Bryan Leese meticulously details how U S Navy operational intelligence evolved to meet the complexities of modern naval warfare particularly in response to the increasing threats posed by the Soviet Navy Structured into four main parts this book begins by examining the Vietnam War

and the institutionalization of shipboard operational intelligence or what Navy intelligence calls Opintel The book highlights the establishment of Integrated Operational Intelligence Centers as part of the RA 5C Vigilante program and the innovative strategies that emerged in air combat and targeting Leese goes on to underscore the necessity of Opintel to the U S Navy s close and distant blockade strategy in the 1960s and 1970s He delves into the decentralization of intelligence processes emphasizing the importance of adaptability and the need to prevent surprise attacks This evolution is framed within the transition to the Navy s Ocean Surveillance Information System a decentralized and responsive operational intelligence system The ongoing developments of shipboard intelligence capabilities are explored demonstrating how these advancements empowered naval commanders In the 1970s the organizations evolved as the revolutionary Opintel adaptations of the 1960s that leveraged cooperation without hierarchy became formalized Leese highlights the revolution to evolution process by introducing Opintel support to shipboard tactical decisions to integrate operational intelligence into comprehensive naval strategies Capturing the essence of this transformative period the author discusses the cultural dynamics within the Navy that fostered innovation and interdepartmental collaboration These developments not only contributed to maintaining a strategic edge over the Soviet Union but also laid the groundwork for future naval operations in the digital age Leese s work reveals the intricate interplay between technology strategy and personnel in creating an effective intelligence framework that allows the U S Navy to assert influence at sea setting conditions for sea control in conflict By blending rich archival research with firsthand accounts this book offers a nuanced understanding of how the Navy adapted to an ever changing operational landscape ultimately preserving peace while navigating the complexities of high stakes maritime conflict

*On Mars* Edward Clinton Ezell, Linda Neuman Ezell, 2013-02-19 Although it was only designed for a ninety day surface mission the Viking 1 lander ultimately transmitted science messages to Earth for seven years This authoritative history chronicles the remarkable achievements of the Viking program during its first three decades Commissioned by NASA it recounts the events surrounding the first planetary landing on Earth s closest neighbor and the first on site search for evidence of extraterrestrial life It also portrays a human drama in which thousands of professionals from government industry and academia joined together to accomplish the seemingly impossible This history begins with a survey of the qualities that make the surface and atmosphere of Mars prime targets for scientific investigation A retrospective of NASA s Mariner program follows detailing the series of robotic interplanetary probes that led to the initiation of the Viking program in 1968 The authors trace the ensuing technological developments including the first lander vehicles and orbiter They also profile the cooperation of managerial technical and scientific teams during the mission s data gathering and analysis phases The final chapters outline the scientific results of the Viking investigations examine some of the unresolved questions and consider possible future explorations Dozens of photos taken by Viking cameras illuminate the text

*Law, Death, and Robots* Keri Grieman, 2024-10-17 Can the law keep up with AI This book examines liability and

regulation for artificial intelligence causing serious physical harm both now and in the future While AI moves quickly regulation follows more slowly an increasing problem for an evolutionary fast paced emerging technology AI has the potential to save lives but in doing so will have the potential to take them as well How do we future proof law and regulation to incentivise life saving innovation as safely as possible This book details how to regulate AI in high risk civil applications for example automated vehicles and medicine addressing both liability and regulatory structure It highlights crucial liability themes for technology governance provides tools to bridge the gap between regulators and technologists examines jurisdictional approaches to AI regulation in the EU UK USA and Singapore and ultimately suggests a jurisdiction agnostic blueprint for regulation

[Mechanics of Composite Materials](#) F. W. Wendt,H. Liebowitz,N. Perrone,2013-10-22 Mechanics of Composite Materials contains the proceedings of the Fifth Symposium on Naval Structural Mechanics held in Philadelphia Pennsylvania on May 8 10 1967 The papers explore the mechanics of composite materials for naval applications The structural requirements of a system and the fundamental mechanical properties of composite materials as well as the behavior of such materials under various environmental conditions are discussed This book is comprised of 40 chapters and begins with an analysis of missile and aircraft systems constraints and operational requirements along with ship systems constraints and operational requirements for composite materials The following chapters focus on structural uses of composites particularly in naval ships aircraft re entry vehicles and space vehicle structures and the micromechanics structural mechanics and failure mechanics of composite materials Problems in the design of joints and attachments are considered along with the stability of pre strained laminated media environmental factors in the design of composite materials and the effect of water on glass reinforced plastics This monograph will be a useful resource for scientists and engineers who are particularly concerned with the mechanics of composite materials

**Space Physics and Aeronomy, Space Weather Effects and Applications** Anthea J. Coster,Philip J. Erickson,Louis J. Lanzerotti,2021-04-27 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

**Thorium Energy for the World** Jean-Pierre Revol,Maurice Bourquin,Yacine Kadi,Egil Lillestol,Jean-Christophe de Mestral,Karel Samec,2016-04-05 The Thorium Energy Conference ThEC13 gathered some of the world s leading experts on thorium technologies to review the possibility of destroying nuclear waste in the short term and replacing the uranium fuel cycle in nuclear systems with the thorium fuel cycle in the long term The latter would provide abundant reliable and safe energy with no CO2 production no air pollution and minimal waste production The participants representatives of 30 countries included Carlo Rubbia Nobel Prize Laureate in physics and inventor of the Energy Amplifier Jack Steinberger Nobel Prize Laureate in physics Hans Blix former Director General of the International Atomic Energy Agency IAEA Rolf Heuer Director General of CERN Pascal Couchepin former President of the Swiss Confederation and Claude Haegi President of the FEDRE to name just a few The ThEC13 proceedings are a source of reference on the use of thorium for energy generation They offer detailed technical reviews of the status of thorium energy technologies from basic R D to industrial developments They also describe how thorium can be used in critical reactors and in subcritical accelerator driven systems ADS answering the important questions Why is thorium so attractive and what is the role of innovation in particular in the nuclear energy domain What are the national and international R D programs on thorium technologies and how are they progressing ThEC13 was organized jointly by the international Thorium Energy Committee iThEC an association based in Geneva and the International Thorium Energy Organisation IThEO It was held in the Globe of Science and Innovation at the European Organization for Nuclear Research CERN Geneva Switzerland in October 2013 Radio Wave Propagation Chas. R. Burrows,2013-10-22 Radio Wave Propagation Consolidated Summary Technical Report of the Committee on Propagation of the National Defense Research Committee presents all the scientific information and report of experiments This book discusses the problems encountered in the propagation of radio waves Organized into three volumes this book begins with an overview of the technical developments in the study of tropospheric propagation This text then outlines the general theory of standard and nonstandard propagation together with descriptions and results of transmission experiments designed to test the theory Other chapters consider the more unusual problems concerning the radar behavior of targets This book discusses as well the problems of radio wave propagation in the standard atmosphere at frequencies above 30 megacycles The final chapter deals with the selection and utilization of local terrain features that affect propagation and the performance of equipment This book is a valuable resource for scientists and engineers in the field of radio wave propagation **Readings in Qualitative Reasoning About Physical Systems** Daniel S. Weld,Johan De Kleer,2013-09-17 Readings in Qualitative Reasoning about Physical Systems describes the automated reasoning about the physical world using qualitative representations This text is divided into nine chapters each focusing on some aspect of qualitative physics The first chapter

deal with qualitative physics which is concerned with representing and reasoning about the physical world The goal of qualitative physics is to capture both the commonsense knowledge of the person on the street and the tacit knowledge underlying the quantitative knowledge used by engineers and scientists The succeeding chapter discusses the qualitative calculus and its role in constructing an envisionment that includes behavior over both mythical time and elapsed time These topics are followed by reviews of the mathematical aspects of qualitative reasoning history based simulation and temporal reasoning as well as the intelligence in scientific computing The final chapters are devoted to automated modeling for qualitative reasoning and causal explanations of behavior These chapters also examine the qualitative kinematics of reasoning about shape and space This book will prove useful to psychologists and psychiatrists

**Oceanographical Engineering** Robert L. Wiegel, 2013-09-03 As is the case with many modern fields of study oceanographical engineering cuts across the boundaries of several disciplines Like other scientific endeavors it aims to understand the nature of the ocean and to make use of this understanding for the benefit of humanity through better ports safer and more economical operations at sea and greater use of the oceans natural resources food raw materials and recreation This graduate level text requires a knowledge of fluid mechanics a background in the motions of sediments in fluids is advisable as is a concurrent course in structural dynamics Topics include the theory of periodic waves tsunamis storm surges and harbor oscillations the effect of structures on waves waves in shoaling water tides and sea level changes currents shores and shore processes some characteristics of the oceans waters moorings and other related subjects Certain portions of the book pertaining to the distribution of temperatures and salinities in the ocean are largely descriptive other portions such as the sections on waves are mathematical Numerous drawings and photographs supplement the text

**Literature 1980, Part 1** Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user I 1980 some older Volume 27 contains literature published in 1980 and received before August literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English

**The Technological Fix** Lisa Rosner, 2013-02-01 The term technological fix should mean a fix



provided by technology a solution for all of our problems from medicine and food production to the environment and business. Instead, technological fix has come to mean a cheap quick fix using inappropriate technology that usually creates more problems than it solves. This collection sets out the distinction between a technological fix and a true technological solution. Bringing together scholars from a variety of disciplines, the essays trace the technological fix as it has appeared throughout the twentieth century. Addressing such fixes as artificial hearts, industrial agriculture, and climate engineering, these essays examine our need to turn to technology for solutions to all of our problems.

**The FFT in the 21st Century** James K. Beard, 2013-03-09. This book was undertaken to provide a text and reference on the theory and practice of the FFT and its common usage. This book is organized in only four chapters and is intended as a tutorial on the use of the FFT and its trade space. The trade space of the FFT is the parameters in its usage and the relationships between them: the sample rate, the total number of points, or the interval over which processing occurs in a single FFT; the selectivity of tuning to a given frequency over signals out of band; and the bandwidth over which a signal appears. The examples given in this text are in FORTRAN 95/2003. FORTRAN 2003 was frozen as a standard while this work was in progress. The listings given here are intended as an aid in understanding the FFT and associated algorithms such as spectral window weightings, with the goal of making the best of them more accessible to the reader. The code I use here provides a simple bridge between the material in the text and implementation in FORTRAN 2003, C, Java, MATLAB, and other modern languages. The examples are sufficiently simple to be translated into older languages such as C and FORTRAN 77 if desired.

Crime, Violence, and Global Warming John Crank, Linda Jacoby, 2015-05-20. Crime, Violence, and Global Warming introduces the many connections between climate change and criminal activity. Conflict over natural resources can escalate to state and non-state actors, resulting in wars, asymmetrical warfare, and terrorism. Crank and Jacoby apply criminological theory to each aspect of this complicated web, helping readers to evaluate conflicting claims about global warming and to analyze evidence of the current and potential impact of climate change on conflict and crime. Beginning with an overview of the science of global warming, the authors move on to the links between climate change, scarce resources, and crime. Their approach takes in the full scope of causes and consequences present and future in the United States and throughout the world. The book concludes by looking ahead at the problem of forecasting future security implications if global warming continues or accelerates. This fresh approach to the criminology of climate change challenges readers to examine all sides of this controversial question and to formulate their own analysis of our planet's future.

Roadmapping Future Tuğrul U. Daim, 2021-03-16. This volume presents a portfolio of cases and applications on technology roadmapping (TRM) for products and services. It provides a brief overview on criteria or metrics used for evaluating the success level of TRM and then offers six case examples from sectors such as transportation, smart technologies, and household electronics. A new innovation in this book is a section of detailed technology roadmap samples that technology managers can apply to emerging technologies.

**Proceedings of the First International**

**Conference on Waste Disposal in the Marine Environment** E. A. Pearson, 2013-09-24 Proceedings of the First International Conference on Waste Disposal in the Marine Environment focuses on the disposal of sewage including pollution of beaches effects of wastes on marine biota and humans and water quality The selection first offers information on the fixed and changing values in ocean disposal of sewage and wastes and characteristics and expeditious detection of bacterial indices of pollution of marine bathing beaches Discussions focus on the coliform index and illness among bathers enterococcus group as an index of pollution of saline bathing beaches characteristics of the coliform group of bacteria and procedures for expeditious determination of E coli and coliform indices in water The book then examines the risk of infection through bathing in sewage polluted water water pollution in Marseilles and its relation with flora and fauna and the benthonic fauna of southern California in shallow depths and possible effects of wastes on the marine biota The text examines the use of marine invertebrates as indicators of water quality foraminiferal ecology around ocean outfalls off southern California discharge of wastes into the sea in European coastal areas and diffusion of sewage effluent in an ocean The selection is a dependable reference for readers interested in the effects of waste disposal in the marine environment

**Thermo-Haemo-Dynamics in Medical Engineering** Fabio Gori Ammannati, 2025-09-29 This textbook is a unique resource that demonstrates how engineering principles can be applied to solve medical challenges It offers a toolkit on how to model heat mass transfer and fluid dynamics in the human body The book discusses numerical solutions for physiological processes related to cryosurgery hyperthermia thermoregulation of the human body thermal and fluid dynamics in coronary stents magneto hydrodynamics in the cardiovascular and respiratory systems and cardiac acoustics The book looks at physiological mechanisms that can be classified as Newtonian and Non Newtonian fluids and clarifies how to leverage the Navier Stokes equations the first and second laws of thermodynamics Fick's law and Non Newtonian principles to model them This book is aimed at students and researchers interested in pursuing engineering studies with a focus on solving medical questions Drawing from the editor's 50 years of experience and knowledge gained in medical engineering this book provides a practical and comprehensive approach to study thermo haemo dynamics in the human body It explains how to model the described physiological process through worked examples and providing the equations behind the models

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