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# FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

(QUESTION 5 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force  $F$  acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 3.00 m/s. See the diagram below.



- 5.1 Define the term non-conservative force.
- 5.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 5.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (4)

The same constant force  $F$  now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force  $F$  acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 5.4 Calculate the distance from point A to point B. (5)

(14)

# February March 2013 Paper 1 Memo Physics

**Michael Riordan, Lilian  
Hoddeson, Arienne W. Kolb**



## **February March 2013 Paper 1 Memo Physics:**

*30 Years Of Bes Physics - Proceedings Of The Symposium On 30 Years Of Bes Physics* Minghan Ye, Changzheng Yuan, 2020-06-05 BES the Beijing Spectrometer began its first groundbreaking physics run thirty years ago in 1989 This is the first high energy physics experiment in China and has been unique throughout the world for its thorough and extended coverage of the tau and charm energy region Since then the BES detector has undergone steady improvements upgrading to BESII in 1998 and to BESIII in 2008 Over the same period the collaboration has expanded from 150 members across 10 institutions in China and the United States to about 500 members across 72 institutions and 15 countries The physics program too has extended from light hadron spectroscopy tau and charm physics to the discovery of exotic charmonium like states precision tests of the Standard Model of particle physics and searches for new physics beyond the Standard Model This special volume collects the proceedings of the symposium held at the Institute of High Energy Physics Beijing in celebration of the 30 year span of achievements and progress at the BES BESII and BESIII experiments Written by many leaders of the BES collaborations these proceedings document the early days of the BES experiments important milestones and the future physics program at BESIII

**Tunnel Visions** Michael Riordan, Lilian Hoddeson, Arianne 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

*The British Battleship 1906-1946* Norman Friedman, 2015-09-30 The British battleship is one of the most intensely studied of all naval topics but it is also among the most popular Norman Friedman is one of the most highly

regarded of all naval writers with an avid following for his work Therefore a new book on British battleships by Friedman is a major event and has been eagerly awaited ever since knowledge of the project began to circulate among enthusiasts Friedman has the ability to bring new ideas to even the most over worked subjects based on extensive original research and a talent for explaining technology in the wider context of politics economics and strategy His latest book covers the development of Royal Navy capital ships including battlecruisers from the pre history of the revolutionary Dreadnought of 1906 to the last of the line HMS Vanguard in 1946 Replete with original insights the story that emerges will enlighten and surprise even the most knowledgeable The attraction of the book is enhanced by sets of specially commissioned plans of the important classes by John Roberts and A D Baker III both renowned experts in their own right plus a colour section featuring the original Admiralty draughts including a spectacular double gatefold For many with an interest in warships this will be the book of the year

[Dynamics of Non-Spherical Particles in Turbulence](#) Luis Blay Esteban, 2019-08-13 This book studies the dynamics of 2D objects moving through turbulent fluids It examines the decay of turbulence over extended time scales and compares the dynamics of non spherical particles moving through still and turbulent fluids The book begins with an introduction to the project its aims and its relevance for industrial applications It then discusses the movement of planar particles in quiescent fluid and presents the numerous methodologies used to measure it The book also presents a detailed analysis of the falling style of irregular particles which makes it possible to estimate particle trajectory and wake morphology based on frontal geometry In turn the book provides the results of an analysis of physically constrained decaying turbulence in a laboratory setting These results suggest that large scale cut off in numerical simulations can result in severe bias in the computed turbulent kinetic energy for long waiting times Combining the main text with a wealth of figures and sketches throughout the book offers an accessible guide for all engineering students with a basic grasp of fluid mechanics while the key findings will also be of interest to senior researchers

*Precision Cosmology* Bernard J. T. Jones, 2017-04-20 Cosmology seeks to characterise our Universe in terms of models based on well understood and tested physics Today we know our Universe with a precision that once would have been unthinkable This book develops the entire mathematical physical and statistical framework within which this has been achieved It tells the story of how we arrive at our profound conclusions starting from the early twentieth century and following developments up to the latest data analysis of big astronomical datasets It provides an enlightening description of the mathematical physical and statistical basis for understanding and interpreting the results of key space and ground based data Subjects covered include general relativity cosmological models the inhomogeneous Universe physics of the cosmic background radiation and methods and results of data analysis Extensive online supplementary notes exercises teaching materials and exercises in Python make this the perfect companion for researchers teachers and students in physics mathematics and astrophysics

**Heretic's Guide To Management** Paul Culmsee, 2016-07-07 Management techniques such as strategic planning project management or operational budgeting aim

to reduce ambiguity and provide clarity So it is one of the great ironies of modern corporate life that these techniques often end up doing the opposite increasing ambiguity rather than reducing it It is easy enough to understand why organizations are complex entities and it is unreasonable to expect management models such as those that fit neatly into a 2 2 matrix or a predetermined checklist to work in the real world Indeed expecting them to work as advertised is akin to colouring a paint by numbers Mona Lisa with the expectation of recreating Da Vinci s masterpiece Ambiguity has not been tamed reality will still impose itself no matter how alluring the model is Unfortunately most of us have a deep aversion to situations that involve even a hint of ambiguity Recent research in neuroscience has revealed the reason for this ambiguity is processed in the parts of the brain which regulate our emotional responses As a result many people associate ambiguity with feelings of anxiety When kids feel anxious they turn to transitional objects such as teddy bears or security blankets providing them with a sense of stability when situations or events seem overwhelming We contend that as grown ups we don t actually stop using teddy bears they take a different form Backed by research we illustrate that management models fads and frameworks are akin to teddy bears They provide the same sense of comfort and certainty to corporate managers and minions as real teddies do to distressed kids This is not a problem in many cases Children usually outgrow their need for a teddy unless if development is disrupted or arrested in some way If this happens the transitional object can become a fetish an object that is held on to with a pathological intensity simply for the comfort that it offers in the face of ambiguity The corporate reliance on simplistic solutions for the complex challenges faced is akin to little Johnny believing that everything will be OK provided he clings on to Teddy Ambiguity is a primal force that drives much of our behaviour It is typically viewed negatively something to be avoided or to be controlled The truth however is that it is a force that can be used in positive ways too The Force that gave the Dark Side their power in the Star Wars movies was harnessed by the Jedi in positive ways Similarly this new management book shows how ambiguous situations so common in the corporate world are processed by the brain and the behaviours that often arise as a consequence More importantly though it shows you how to harness that ambiguity to achieve outstanding results

**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

**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

**Government Reports**  
**Announcements** ,1973 Geotechnical Engineering for the Preservation of Monuments and Historic Sites Emilio Bilotta,Alessandro Flora,Stefania Lirer,Carlo Viggiani,2013-05-10 All the traces of historic heritage are a fundamental part of our environment and reward us in the form of cultural enrichment with the ability to have a positive effect both on our lifestyle and economy Therefore the preservation of ancient monuments historic towns and sites has increasingly drawn the attention of public opinion governmental agencies as well as consultants and contractors This interest must be however carefully controlled and directed since the conservation of monuments and historic sites is one of the most challenging problems of our age Careless attempts at preservation can be detrimental not only to their iconic value formal integrity but even to their structural characteristics and the materials they are built with material integrity Geotechnical Engineering for the Preservation of Monuments and Historic Sites collects one opening address four special lectures and 82 contributions from all over the world giving a unique sample of the geotechnical problems to be tackled the solutions currently being proposed and the strategies being carried out to preserve the overall integrity of monuments and historic sites It is clearly apparent that differences exist around the world not only in terms of the characteristics of the monuments or sites to be preserved but also in the approaches adopted to achieve this aim Hence no unique solution is available to the geotechnical engineer dealing with the delicate structures and sites that represent our cultural heritage and knowledge of previous experiences may be a unique guide in any technical decision making process

**Complexity, Security and Civil Society in East Asia** Peter Hayes,Kiho Yi,2015-06-22 Complexity Security and Civil Society in East Asia offers the latest understanding of complex global problems in the region including nuclear weapons urban insecurity energy and climate change Detailed case studies of China North and South Korea and Japan demonstrate the importance of civil society and civic diplomacy in

reaching shared solutions to these problems in East Asia and beyond Each chapter describes regional civil society initiatives that tackle complex challenges to East Asia s security In doing so the book identifies key pressure points at which civil society can push for constructive changes especially ones that reduce the North Korean threat to its neighbors Unusually this book is both theoretical and practical Complexity Security and Civil Society in East Asia presents strategies that can be led by civil society and negotiated by its diplomats to realize peace security and sustainability worldwide It shows that networked civic diplomacy offers solutions to these urgent issues that official complex diplomacy cannot By providing a new theoretical framework based on empirical observation this volume is a must read for diplomats scholars students journalists activists and individual readers seeking insight into how to solve the crucial issues of our time **CIS Annual ,1977      The Living Church ,2004-07      Government Reports Announcements & Index ,1987-09      **Arming the Warship** Iver P. Cooper,2024-11-04**

In the 16th century warships engaged at close range sometimes with yards touching and small arms fire and hand to hand combat were at least as important as the great guns As time went on the big guns became more decisive and increased in destructive power range and accuracy This book explores how naval armament armor ballistics and gunnery evolved from the 16th to 20th centuries from a scientific and technological perspective It examines the functional aspects the guns and their distribution on warships the propellants the projectiles and so forth and examines the development of each

*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 Heat Pipes David Reay,Ryan McGlen,Peter Kew,2013-10-01 *Heat Pipes* Sixth Edition takes a highly practical approach to the design and selection of heat pipes making it an essential guide for practicing engineers and an ideal text for postgraduate students This new edition has been revised to include new information on the underlying theory of heat pipes and heat transfer and features fully updated applications new data sections and updated chapters on design and electronics cooling The book is a useful reference for those with experience and an accessible

introduction for those approaching the topic for the first time Contains all information required to design and manufacture a heat pipe Suitable for use as a professional reference and graduate text Revised with greater coverage of key electronic cooling applications      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      *Forthcoming Books* Rose Arny,1992      **Diskurse - digital** Eva Gredel,2022-06-06 Die Diskurslinguistik als relativ neue Teildisziplin der germanistischen Linguistik besch ftigt sich mit der Frage wie soziale Wirklichkeiten in transtextuell organisierten Einheiten konstruiert werden Bisher finden dabei noch kaum Texte aus digitalen Medien z B aus Twitter Bercksichtigung Ziel ist es das Programm und das Methodeninventar der Diskurslinguistik in zwei Richtungen zu erweitern Zum einen sollen die spezifischen Beschreibungskategorien und Analysewerkzeuge f r Diskurse in digitalen Medien systematisiert werden Zum anderen sollen Methoden und Instrumente der Korpuslinguistik und Digital Methods im Hinblick auf die Anforderungen der Diskurslinguistik evaluiert und ausgebaut werden Die Publikation thematisiert Spezifika digitaler Medien und Plattformen aus diskurslinguistischer Sicht und beschreibt welche charakteristischen Muster sich aus diesen Spezifika in digitalen Diskursen ergeben Zudem werden ethische und rechtliche Aspekte bei der Analyse digitaler Diskurse z B Anonymisierung digitaler Sprach Daten thematisiert In einem umfassenden Methodenkapitel geben die Autor innen zudem einen berblick ber relevante Methoden f r digitale Diskursanalysen deren Einsatz an Fallbeispielen illustriert wird



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