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**GRADE 10**

**PHYSICAL SCIENCES (PHYSICS P1)**

**OCTOBER 2023**

## **MEMORANDUM**

**MARKS: 100**

**TIME: 2 HOURS**

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# Memorandum For Physical Sciences Paper Feb March 2014

**CO Houle**



## **Memorandum For Physical Sciences Paper Feb March 2014:**

Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living

Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies

Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S's still strong research oriented innovation system

**This Changes Everything** Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller *The Shock Doctrine* a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world The status quo is no longer an option In *This Changes Everything* Naomi Klein argues that climate change isn't just another issue to be neatly filed between taxes and health care It's an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities re-imagine our broken democracies and rebuild our gutted local economies She exposes the ideological

desperation of the climate change deniers the messianic delusions of the would be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us

**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

Investing in Science Massimo Florio, 2019-10-15 A proposal for using cost benefit analysis to evaluate the socioeconomic impact of public investment in large scientific projects Large particle accelerators outer space probes genomics platforms all are scientific enterprises managed through the new form of the research infrastructure in which communities of scientists collaborate across nations universities research institutions and disciplines Such large projects are often publicly funded with no accepted way to measure the benefits to society of these investments In this book Massimo Florio suggests the use of cost benefit analysis CBA to evaluate the socioeconomic impact of public investment in large and costly scientific projects The core concept of CBA of any

infrastructure is to undertake the consistent intertemporal accounting of social welfare effects using the available information Florio develops a simple framework for such accounting in the research infrastructure context and then offers a systematic analysis of the benefits in terms of the social agents involved He measures the benefits to scientists students and postdoctoral researchers the effect on firms of knowledge spillovers the benefits to users of information technology and science based innovation the welfare effects on the general public of cultural services provided by RIs and the willingness of taxpayers to fund scientific knowledge creation Finally Florio shows how these costs and benefits can be expressed in the form of stochastic net present value and other summary indicators

**Bulk Collection of Signals Intelligence** National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Responding to Section 5(d) of Presidential Policy Directive 28: The Feasibility of Software to Provide Alternatives to Bulk Signals Intelligence Collection, 2015-03-24 The Bulk Collection of Signals Intelligence Technical Options study is a result of an activity called for in Presidential Policy Directive 28 PPD 28 issued by President Obama in January 2014 to evaluate U S signals intelligence practices The directive instructed the Office of the Director of National Intelligence ODNI to produce a report within one year assessing the feasibility of creating software that would allow the intelligence community more easily to conduct targeted information acquisition rather than bulk collection ODNI asked the National Research Council NRC the operating arm of the National Academy of Sciences and National Academy of Engineering to conduct a study which began in June 2014 to assist in preparing a response to the President Over the ensuing months a committee of experts appointed by the Research Council produced the report

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

*Unwinnable* Theo Farrell, 2017-09-07 Afghanistan was an unwinnable war As British and American troops withdraw discover this definitive account that explains why It could have been a very different story British forces could have successfully withdrawn from Afghanistan in 2002 having done the job they set out to do to defeat al Qaeda Instead in the years that followed Britain paid a devastating price for their presence in Helmand province So why did Britain enter and remain in an ill fated war Why did it fail so dramatically and was this expedition doomed from the beginning Drawing on unprecedented access to military reports government documents and senior individuals Professor Theo Farrell provides an extraordinary work of scholarship He explains the origins of the war details the campaigns over the subsequent years and examines the West's failure to understand the dynamics of local conflict and learn the lessons of history that ultimately led to devastating costs and

repercussions still relevant today The best book so far on Britain's war in Afghanistan International Affairs Masterful irrefutable Farrell records all these military encounters with the irresistible pace of a novelist Sunday Times

**Government Reports Announcements**, 1975-08-22 Innovation in Financial Services Anne-Laure Mention, Marko Torkkeli, 2014-10-21 This book gathers together some of the most up to date thinking in the growing field of innovation in services and more particularly in financial services It explores the peculiarities of innovation in financial services firms and surrounding market players discusses the open nature of the innovation process and analyses its success factors and its interplay with strategy and performance This book provides topical insights on the challenges facing the financial industry such as the convergence with other sectors and the increasing regulatory burden By combining multidisciplinary approaches and by selecting a number of cutting edge research models theories empirical findings and practitioners insights it offers unique contemporary and multidimensional perspectives on innovation for a sector of paramount importance for the running of economies around the world This book comes at a time of turbulence uncertainty and within an industry in need of vision and strategic foresight By synthesizing multiple views from academia and practice it opens the agenda and contributes to the on going debate of redefining the multi polar role of innovation in the financial industry 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 *Capacitor Discharges - Magnetohydrodynamics - X-Rays - Ultrasonics* Frank B. A. Früngel, 2014-05-12 High Speed Pulse Technology Volume 1

Capacitor Discharges Magnetohydrodynamics X Rays Ultrasonics deals with the theoretical and engineering problems that arise in the capacitor discharge technique This book discusses the characteristics of dielectric material symmetrical switch tubes with mercury filling and compensation conductor forms The transformed discharge for highest current peaks ignition transformer for internal combustion engines and X ray irradiation of subjects in mechanical motion are also elaborated This text likewise covers the transformed capacitor discharge in welding engineering application of strong magnetic shock fields in nuclear physics and shock sound by underwater capacitor discharges Other topics include the shaping metals by electrical explosion shock wave and electro erosion machining of metals This volume is recommended for electrical engineering and physics students     Salt in the Earth Sciences Webster Mohriak,2025-08-06 A comprehensive review of salt deposition in sedimentary environments worldwide Salt is formed when water rich in evaporite minerals accumulates on the Earth s surface and then evaporates Over time pressure and tectonics change the structure and shape of salt layers Recent technological advances have improved the interpretation and modeling of subsurface salt structures Salt in the Earth Sciences Evaporite Rocks and Salt Deposition presents a global overview of salt deposition and deformation in sedimentary basins synthesizing data analysis observations theories and modeling Volume highlights include Overview of salt use by humans from prehistoric times to the modern industrial world Chemical and physical principles of evaporite deposition in sedimentary basins Effects of gravity and tectonic forces on rock salt deformation Development of salt structures in orogenic belts and deep basins Seismic interpretation methods for identification of subsurface salt structures Key sedimentological models for evaporite deposition in continental and marine environments Global examples ranging from modern hypersaline rift lakes to ancient marine salt basins Browse the other volume in this set Salt in the Earth Sciences Basin Analysis and Salt Tectonics 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     **Plastics in Aquatic Systems: from Transport and Fate to Impacts and Management Perspectives** Tanveer Adyel,Lingzhan Miao,Kryss Waldschläger,2022-11-16     *Remote Sensing* Floyd F. Sabins, Jr.,James M. Ellis,2020-04-01 Remote sensing has undergone profound changes over the past two decades as GPS GIS and sensor advances have significantly expanded the user community and availability of images New tools such as automation cloud based services drones and artificial intelligence continue to expand and enhance the discipline Along with comprehensive coverage and clarity Sabins and Ellis establish a solid foundation for the insightful use of remote sensing with an emphasis on principles and a focus on sensor technology and image acquisition The Fourth Edition presents a valuable discussion of the growing and permeating use of technologies such as drones and manned aircraft imaging DEMs and lidar The authors explain the scientific and societal impacts of remote sensing review digital image processing and GIS provide case histories from areas around the globe and describe practical applications of remote sensing to the environment renewable and nonrenewable resources land use land

cover natural hazards and climate change Remote Sensing Digital Database includes 27 examples of satellite and airborne imagery that can be used to jumpstart labs and class projects The database includes descriptions georeferenced images DEMs maps and metadata Users can display process and interpret images with open source and commercial image processing and GIS software Flexible revealing and instructive the Digital Image Processing Lab Manual provides 12 step by step exercises on the following topics an introduction to ENVI Landsat multispectral processing image processing band ratios and principal components georeferencing DEMs and lidar IHS and image sharpening unsupervised classification supervised classification hyperspectral and change detection and radar Introductory and instructional videos describe and guide users on ways to access and utilize the Remote Sensing Digital Database and the Digital Image Processing Lab Manual Answer Keys are available for instructors for questions in the text as well as the Digital Image Processing Lab Manual

### **Managing**

**Medical Devices within a Regulatory Framework** Beth Ann Fiedler,2016-09-10 Managing Medical Devices within a Regulatory Framework helps administrators designers manufacturers clinical engineers and biomedical support staff to navigate worldwide regulation carefully consider the parameters for medical equipment patient safety anticipate problems with equipment and efficiently manage medical device acquisition budgets throughout the total product life cycle This contributed book contains perspectives from industry professionals and academics providing a comprehensive look at health technology management HTM best practices for medical records management interoperability between and among devices outside of healthcare and the dynamics of implementation of new devices Various chapters advise on how to achieve patient confidentiality compliance for medical devices and their software discuss legal issues surrounding device use in the hospital environment of care the impact of device failures on patient safety methods to advance skillsets for HTM professionals and resources to assess digital technology The authors bring forth relevant challenges and demonstrate how management can foster increased clinical and non clinical collaboration to enhance patient outcomes and the bottom line by translating the regulatory impact on operational requirements Covers compliance with FDA and CE regulations plus EU directives for service and maintenance of medical devices Provides operational and clinical practice recommendations in regard to regulatory changes for risk management Discusses best practices for equipment procurement and maintenance Provides guidance on dealing with the challenge of medical records management and compliance with patient confidentiality using information from medical devices

### **Resources in Education** ,1984

### **Aircraft Aerodynamic Design** András

Sóbester,Alexander I. J. Forrester,2014-09-23 Optimal aircraft design is impossible without a parametric representation of the geometry of the airframe We need a mathematical model equipped with a set of controls or design variables which generates different candidate airframe shapes in response to changes in the values of these variables This model s objectives are to be flexible and concise and capable of yielding a wide range of shapes with a minimum number of design variables Moreover the process of converting these variables into aircraft geometries must be robust Alas flexibility conciseness and



robustness can seldom be achieved simultaneously Aircraft Aerodynamic Design Geometry and Optimization addresses this problem by navigating the subtle trade offs between the competing objectives of geometry parameterization It begins with the fundamentals of geometry centred aircraft design followed by a review of the building blocks of computational geometries the curve and surface formulations at the heart of aircraft geometry The authors then cover a range of legacy formulations in the build up towards a discussion of the most flexible shape models used in aerodynamic design with a focus on lift generating surfaces The book takes a practical approach and includes MATLAB Python and Rhinoceros code as well as real life example case studies Key features Covers effective geometry parameterization within the context of design optimization Demonstrates how geometry parameterization is an important element of modern aircraft design Includes code and case studies which enable the reader to apply each theoretical concept either as an aid to understanding or as a building block of their own geometry model Accompanied by a website hosting codes Aircraft Aerodynamic Design Geometry and Optimization is a practical guide for researchers and practitioners in the aerospace industry and a reference for graduate and undergraduate students in aircraft design and multidisciplinary design optimization

*Using Film to Understand Childhood and Practice* Sue Aitken, 2018-02-08 Using Film to Understand Childhood and Practice is an innovative and lively text which allows complex and challenging issues within childhood studies to be explored using the medium of filmed drama By utilising popular culture this book provides accessible narratives to students and lecturers needing to engage with complex theoretical ideas In exposing theories to tangible situations often from more than one perspective in films readers are helped to identify and recognise how theories about children and childhood can be applied Each chapter uses a specific film to provide the basis for discussion in order to explore and analyse key concepts within childhood studies which include identity social construction families political and biological narratives children s rights and participation A range of international films are used including Charlie and the Chocolate Factory Rabbit Proof Fence The Hunger Games and The Red Balloon First introducing the theoretical perspective to be discussed chapters also include a contextual explanation of the film and list the specific scenes that will be used to guide students through Concluding with discussion questions students are asked to consider how the theories discussed might be translated in to their own experiences of children childhood and practice Not only supporting understanding of core principles and key ideas across any childhood studies degree this book supports students throughout their university career and beyond by engaging with the journey of becoming a graduate as well as discussion of workplace issues and concepts after graduation

#### **Canine Olfaction Science and Law** Tadeusz

Jezierski, John Ensminger, L. E. Papet, 2016-04-20 The value of the canine nose is well documented and working dogs are being utilized for their olfactory skills in an increasing number of fields Not only are dogs used by police security and the military but they are also now used in forensic science in medical detection of disease in calculating population trends of endangered species and e

*Emerging Technologies with High Impact for Ocean Sciences, Ecosystem Management, and*

*Environmental Conservation* Oscar Pizarro,Leonard Pace,2021-07-27

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