

**GRADE 11**

**PHYSICAL SCIENCES**

**P1 (PHYSICS)**

**FINAL/NOVEMBER**

**EXAM**

**WITH  
MEMORANDUM**

# Physical Sciences Paper exemplar 2013 Memorandum

**National Academies of Sciences,  
Engineering, and Medicine, Policy and  
Global Affairs, Board on Research Data  
and Information, Committee on Toward  
an Open Science Enterprise**

## **Physical Sciences Paper exemplar 2013 Memorandum:**

**The quantification of the key physics parameters for the DEMO fusion power reactor and analysis of the reactor relevant physics issues** Igitchkanov, Yu., Bazylev, B., Fetzner, R., 2015-01-20      *The Secure and the Dispossessed* Nick Buxton, Ben Hayes, 2015-11-20 While the world's scientists and many of its inhabitants despair at the impact of climate change corporate and military leaders see nothing but opportunities For them melting ice caps mean newly accessible fossil fuels borders to be secured from climate refugees social conflicts to be managed and more failed states in which to intervene They are securing their assets at the expense of the planet and its inhabitants *The Secure and the Dispossessed* looks at these deadly approaches with a critical eye It also considers the flip side that the legitimacy of the elite is under unprecedented pressure from resistance by communities to resource grabs to those creating new ecological and socially just models for managing our energy food and water Topics covered include geoengineering militarism refugee protection greenwashing and the agricultural crisis among others Adaptation and resilience to a climate changed world is desperately needed but the form it will take will affect all of our futures      **Open Science by Design** National Academies of Sciences, Engineering, and Medicine, Policy and Global Affairs, Board on Research Data and Information, Committee on Toward an Open Science Enterprise, 2018-09-09 Openness and sharing of information are fundamental to the progress of science and to the effective functioning of the research enterprise The advent of scientific journals in the 17th century helped power the Scientific Revolution by allowing researchers to communicate across time and space using the technologies of that era to generate reliable knowledge more quickly and efficiently Harnessing today's stunning ongoing advances in information technologies the global research enterprise and its stakeholders are moving toward a new open science ecosystem Open science aims to ensure the free availability and usability of scholarly publications the data that result from scholarly research and the methodologies including code or algorithms that were used to generate those data Open Science by Design is aimed at overcoming barriers and moving toward open science as the default approach across the research enterprise This report explores specific examples of open science and discusses a range of challenges focusing on stakeholder perspectives It is meant to provide guidance to the research enterprise and its stakeholders as they build strategies for achieving open science and take the next steps      *Training Students to Extract Value from Big Data* National Research Council, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Applied and Theoretical Statistics, 2015-01-16 As the availability of high throughput data collection technologies such as information sensing mobile devices remote sensing internet log records and wireless sensor networks has grown science engineering and business have rapidly transitioned from striving to develop information from scant data to a situation in which the challenge is now that the amount of information exceeds a human's ability to examine let alone absorb it Data sets are increasingly complex and this potentially increases the problems associated with such concerns as missing information and other quality

concerns data heterogeneity and differing data formats The nation's ability to make use of data depends heavily on the availability of a workforce that is properly trained and ready to tackle high need areas Training students to be capable in exploiting big data requires experience with statistical analysis machine learning and computational infrastructure that permits the real problems associated with massive data to be revealed and ultimately addressed Analysis of big data requires cross disciplinary skills including the ability to make modeling decisions while balancing trade offs between optimization and approximation all while being attentive to useful metrics and system robustness To develop those skills in students it is important to identify whom to teach that is the educational background experience and characteristics of a prospective data science student what to teach that is the technical and practical content that should be taught to the student and how to teach that is the structure and organization of a data science program Training Students to Extract Value from Big Data summarizes a workshop convened in April 2014 by the National Research Council's Committee on Applied and Theoretical Statistics to explore how best to train students to use big data The workshop explored the need for training and curricula and coursework that should be included One impetus for the workshop was the current fragmented view of what is meant by analysis of big data data analytics or data science New graduate programs are introduced regularly and they have their own notions of what is meant by those terms and most important of what students need to know to be proficient in data intensive work This report provides a variety of perspectives about those elements and about their integration into courses and curricula

**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

**Project on Nuclear Issues** Sarah Minot, 2014-11-03 The Project on Nuclear Issues 2013 conference series included events at Northrop Grumman in May Sandia National Laboratory in July and CSIS in December before concluding with a Capstone Conference at Offutt Air Force Base home of the U S Strategic Command in March 2014 The papers included in this volume are a collection of some of the presentations delivered at the Capstone Conference Spanning a wide range of technical and policy issues these selected papers hope to further discussion in their respective areas as well as contribute to

the success of the greater nuclear community      Sound System Engineering 4e Don Davis, Eugene Patronis, Pat Brown, 2013-06-26 Long considered the only book an audio engineer needs on their shelf Sound System Engineering provides an accurate complete and concise tool for all those involved in sound system engineering Fully updated on the design implementation and testing of sound reinforcement systems this great reference is a necessary addition to any audio engineering library Packed with revised material numerous illustrations and useful appendices this is a concentrated capsule of knowledge and industry standard that runs the complete range of sound system design from the simplest all analog paging systems to the largest multipurpose digital systems      **A Political History of Big Science** Katharina C. Cramer, 2020-08-31 This book investigates the political history of Big Science in Europe in the late twentieth century and the early twenty first century characterised by the founding histories of two collaborative single sited facilities namely the European Synchrotron Radiation Facility ESRF in Grenoble France and the European X Ray Free Electron Laser European XFEL in Schenefeld Germany Under the heading of the other Europe this book presents the history and politics of European Big Science as an alternative road to Western European integration besides the mainstream political integration process of the European Economic Community and the European Union It shows that Big Science has a role to play in European politics and policymaking and that the crucial and unavoidable symbiosis between science technology and politics brings the creation of Big Science projects back to geopolitical realities      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 History and Science of the Manhattan Project** Bruce Cameron Reed, 2013-10-16 The development of atomic bombs under the auspices of the U S Army s Manhattan Project

during World War II is considered to be the outstanding news story of the twentieth century In this book a physicist and expert on the history of the Project presents a comprehensive overview of this momentous achievement The first three chapters cover the history of nuclear physics from the discovery of radioactivity to the discovery of fission and would be ideal for instructors of a sophomore level Modern Physics course Student level exercises at the ends of the chapters are accompanied by answers Chapter 7 covers the physics of first generation fission weapons at a similar level again accompanied by exercises and answers For the interested layman and for non science students and instructors the book includes extensive qualitative material on the history organization implementation and results of the Manhattan Project and the Hiroshima and Nagasaki bombing missions The reader also learns about the legacy of the Project as reflected in the current world stockpiles of nuclear weapons

The Idea Factory Jon Gertner,2013-02-26 The definitive history of America's greatest incubator of innovation and the birthplace of some of the 20th century's most influential technologies Filled with colorful characters and inspiring lessons The Idea Factory explores one of the most critical issues of our time What causes innovation Walter Isaacson The New York Times Book Review Compelling Gertner's book offers fascinating evidence for those seeking to understand how a society should best invest its research resources The Wall Street Journal From its beginnings in the 1920s until its demise in the 1980s Bell Labs officially the research and development wing of AT T was the biggest and arguably the best laboratory for new ideas in the world From the transistor to the laser from digital communications to cellular telephony it's hard to find an aspect of modern life that hasn't been touched by Bell Labs In The Idea Factory Jon Gertner traces the origins of some of the twentieth century's most important inventions and delivers a riveting and heretofore untold chapter of American history At its heart this is a story about the life and work of a small group of brilliant and eccentric men Mervin Kelly Bill Shockley Claude Shannon John Pierce and Bill Baker who spent their careers at Bell Labs Today when the drive to invent has become a mantra Bell Labs offers us a way to enrich our understanding of the challenges and solutions to technological innovation Here after all was where the foundational ideas on the management of innovation were born

The Ruins of Urban Modernity Utku Mogultay,2018-05-31 The Ruins of Urban Modernity examines Thomas Pynchon's 2006 novel *Against the Day* through the critical lens of urban spatiality Navigating the textual landscapes of New York Venice London Los Angeles and the 1893 Chicago World's Fair *Against the Day* reimagines urban modernity at the turn of the 20th century As the complex novel collapses and rebuilds anew the spatial imaginaries underlying the popular fictions of urban modernity Utku Mogultay explores how such creative disfiguration throws light on the contemporary urban world Through critical spatial readings he considers how Pynchon historicizes issues ranging from the commodification of the urban landscape to the politics of place making In Mogultay's reading *Against the Day* is shown to offer an oblique negotiation of postmodern urban spaces thus directing our attention to the ongoing erosion of sociospatial diversity in North American cities and elsewhere

*Strengthening the Disaster Resilience of the Academic Biomedical*

*Research Community* National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Health and Medicine Division, Institute for Laboratory Animal Research, Board on Earth Sciences and Resources, Board on Health Sciences Policy, Committee on Strengthening the Disaster Resilience of Academic Research Communities, 2017-11-20 The academic biomedical research community is a hub of employment economic productivity and scientific progress Academic research institutions are drivers of economic development in their local and state economies and by extension the national economy Beyond the economic input that the academic biomedical research community both receives and provides it generates knowledge that in turn affects society in myriad ways The United States has experienced and continues to face the threat of disasters and like all entities the academic biomedical research community can be affected Recent disasters from hurricanes to cyber attacks and their consequences have shown that the investments of the federal government and of the many other entities that sponsor academic research are not uniformly secure First and foremost events that damage biomedical laboratories and the institutions that house them can have impacts on the safety and well being of humans and research animals Furthermore disasters can affect career trajectories scientific progress and financial stability at the individual and institutional levels Strengthening the Disaster Resilience of the Academic Biomedical Research Community offers recommendations and guidance to enhance the disaster resilience of the academic biomedical research community with a special focus on the potential actions researchers academic research institutions and research sponsors can take to mitigate the impact of future disasters

**Literature 1988, Part 2** Astronomisches Rechen-Institut, 2013-06-29 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2

**The History of Oxford University Press** Ian Anders Gadd, Simon Eliot, Keith Robbins, William Roger Louis, 2013 The history of Oxford University Press spans five centuries of printing and publishing This fourth volume explores the Press s modern history as an unsubsidized business with significant educational and cultural responsibilities and how it maintained these through economic turbulence political upheaval and rapid technological

innovation      **The Participatory Cultures Handbook** Aaron Alan Delwiche, Jennifer Jacobs Henderson, 2013 The Participatory Cultures Handbook will help students and scholars navigate this rapidly changing media and cultural terrain Composed of newly commissioned essays from contributors across disciplines this handbook will introduce students to the concept of participatory culture explain how researchers approach participatory culture studies and provide original examples of participatory culture in action The wide range of topics explored in participatory culture include crowdsourcing citizen journalism fanfiction wikis video games video sharing transmedia storytelling and much more      Guide to English & Logical Reasoning for BITSAT with past 5 Year Solved Papers (2017-2013) + 10 Mock Tests - 6th Edition Disha Experts, The book English Verbal Reasoning Analogy Classification Or Odd Man Out Series Logical Deduction Chart Logic Non Verbal Reasoning Pattern Perception Or Completion Of Figures Figure Formation Analysis Paper Cutting Figure matrix Rule Detection The book also contains 10 Mock Papers on the pattern of BITSAT for practice Out of the 10 Tests 5 are provided in the form of Online Tests and 5 are provided in the book The Mock Online Tests provides Insta Results Solutions and Analytics related to section wise and chapter wise absolute and relative feedback The details to access the Online Tests are provided in the book The solutions to the 5 Mock Tests in the book are provided at the end of the tests The book is also empowered with Smart Revision Material for Physics Chemistry and Mathematics This book is a One Stop Solution as the students are already prepared for JEE Main The students require a quick revision material of PCM and detailed material on English Logical Reasoning along with Practice Mock Tests The Online Tests provides the online exposure to the students      **Leadership in the British Civil Service (Routledge Revivals)** Richard A. Chapman, 2013-05-13 First published in 1984 this book examines the style of leadership amongst senior civil servants and its impact on administrative reform by investigating the work of Sir Percival Waterfield who was First Civil Service Commissioner from 1939 to 1951 He was responsible for setting up the Civil Service Selection Board which was the key institution in the pioneering new approach to personnel selection initiated in Britain after the Second World War It has been regarded as the model for personnel recruitment in other contexts and for civil service recruitment in other countries The book raises fundamental questions about the criteria for recruitment and promotion of leading officials in British central government and offers a rare glimpse of the day to day work of top civil servants and the administrative culture in which they operate      *Polio Wars* Naomi Rogers, 2013-10-20 During World War II polio epidemics in the United States were viewed as the country's other war at home they could be neither predicted nor contained and paralyzed patients faced disability in a world unfriendly to the disabled These realities were exacerbated by the medical community's enforced orthodoxy in treating the disease treatments that generally consisted of ineffective therapies *Polio Wars* is the story of Sister Elizabeth Kenny Sister being a reference to her status as a senior nurse not a religious designation who arrived in the US from Australia in 1940 espousing an unorthodox approach to the treatment of polio Kenny approached the disease as a non neurological affliction championing such novel therapies as hot packs and



muscle exercises in place of splinting surgery and immobilization Her care embodied a different style of clinical practice one of optimistic patient centered treatments that gave hope to desperate patients and families The Kenny method initially dismissed by the US medical establishment gained overwhelming support over the ensuing decade including the endorsement of the National Foundation for Infantile Paralysis today s March of Dimes America s largest disease philanthropy By 1952 a Gallup Poll identified Sister Kenny as most admired woman in America and she went on to serve as an expert witness at Congressional hearings on scientific research a foundation director and the subject of a Hollywood film Kenny breached professional and social mores crafting a public persona that blended Florence Nightingale and Marie Curie By the 1980s following the discovery of the Salk and Sabin vaccines and the March of Dimes withdrawal from polio research most Americans had forgotten polio its therapies and Sister Kenny In examining this historical arc and the public s process of forgetting Naomi Rogers presents Kenny as someone worth remembering Polio Wars recalls both the passion and the practices of clinical care and explores them in their own terms

**Reading Dylan Thomas** Allen Edward Allen, 2018-11-14  
A collection of essays on Dylan Thomas reading culture and his place in modernist studies Reclining quietly with a book an ear glued to the Hi Fi sifting a library stack the TV flickering a website gone live Few poets have inspired such remarkable scenes and modes of interpretation as Dylan Thomas Our means of access and response to his work have never been more eclectic and this collection sheds new light on what it means to read such a various art In thinking beyond the parameters of life writing and lingering interpretative communities Reading Dylan Thomas attends in detail to the problems and pleasures of deciphering Thomas in the twenty first century teasing out his debts and effects tracing his influence on later artists and suggesting ways to understand his own idiosyncratic reading practices From short stories to memoirs poems to broadcasts letters to films manuscripts to paintings the material considered in this volume lays the ground for a new consideration of Thomas s formal versatility and his distinctive relation to literary modernism Key Features Evaluates the breadth of Thomas s creative practice from short stories to memoirs poems to broadcasts letters to films manuscripts to paintings Draws on recently discovered manuscripts and archival material in Britain and North America A distinctive combination of cultural history close reading and critical theory

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