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# Physics

## Paper 1

**Higher Tier**

Wednesday 23 May 2018 – Afternoon  
Time: 1 hour 45 minutes

Paper Reference

**1PH0/1H**

You must have:  
Calculator, ruler

Total Marks

### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- Calculators may be used.
- Any diagrams may NOT be accurately drawn, unless otherwise indicated.
- You must **show all your working out** with your answer clearly identified at the **end of your solution**.

### Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*
- In questions marked with an asterisk (\*), marks will be awarded for your ability to structure your answer logically showing how the points that you make are related or follow on from each other where appropriate.
- A list of equations is included at the end of this exam paper.

### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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# Past Paper Physics Additional Science January 2013

**Gloria Emeagwali, George J Sefa Dei**



### **Past Paper Physics Additional Science January 2013:**

**Cracking the MCAT, 2013-2014 Edition** James L. Flowers, M.D., Princeton Review, Theodore Silver, M.D., 2012-12-04 If you need to know it for the MCAT it's in this book The MCAT is a challenging exam that tests more than your knowledge of basic physical and biological sciences You need to know absolutely everything from amino acids and proteins to translational motion to verbal reasoning and more Cracking the MCAT 2013 2014 Edition will help you review all the necessary content with in depth coverage of all subjects tested on the MCAT This book includes Exclusive free online access to 4 full length practice tests with comprehensive answers and explanations A full color 16 page tear out reference guide with all the most important formulas diagrams information concepts and charts for each section of the MCAT Complete coverage of all the topics on the MCAT including physics general chemistry biology organic chemistry and verbal reasoning Practice passages questions and detailed explanation with step by step solutions at the end of every chapter for maximum practice and preparation A bonus chapter containing helpful advice on effective study habits applying to medical school and top trends in health care A comprehensive index Study your way to success with Cracking the MCAT 2013 2014 Edition **High**

**Performance Computing in Science and Engineering '13** Wolfgang E. Nagel, Dietmar H. Kröner, Michael M. Resch, 2013-12-12 This book presents the state of the art in simulation on supercomputers Leading researchers present results achieved on systems of the High Performance Computing Center Stuttgart HLRS for the year 2013 The reports cover all fields of computational science and engineering ranging from CFD via computational physics and chemistry to computer science with a special emphasis on industrially relevant applications Presenting results of one of Europe's leading systems this volume covers a wide variety of applications that deliver a high level of sustained performance The book covers the main methods in high performance computing Its outstanding results in achieving highest performance for production codes are of particular interest for both the scientist and the engineer The book comes with a wealth of coloured illustrations and tables of results **High Performance Computing in Science and Engineering '14** Wolfgang E. Nagel, Dietmar H.

Kröner, Michael M. Resch, 2015-02-14 This book presents the state of the art in supercomputer simulation It includes the latest findings from leading researchers using systems from the High Performance Computing Center Stuttgart HLRS The reports cover all fields of computational science and engineering ranging from CFD to computational physics and from chemistry to computer science with a special emphasis on industrially relevant applications Presenting findings of one of Europe's leading systems this volume covers a wide variety of applications that deliver a high level of sustained performance The book covers the main methods in high performance computing Its outstanding results in achieving the best performance for production codes are of particular interest for both scientists and engineers The book comes with a wealth of color illustrations and tables of results **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of

Commons, 2012 [Art And Practice Of Mathematics, The: Interviews At The Institute For Mathematical Sciences, National](#)

University Of Singapore, 2010-2020 Yu Kiang Leong, 2021-06-23 This book constitutes the second volume of interviews with prominent mathematicians and mathematical scientists who visited the Institute for Mathematical Sciences National University of Singapore First published in the Institute's newsletter Imprints during the period 2010-2020 they offer glimpses of an esoteric universe as viewed and experienced by some of the leading and creative practitioners of the craft of mathematics The topics covered in this volume are wide ranging running from pure mathematics logic number theory algebraic geometry to applied mathematics mathematical modeling fluid dynamics through probability and statistics mathematical physics theoretical computer science and financial mathematics This eclectic mix of the abstract and the concrete should interest those who are enthralled by the mystique and power of mathematics whether they are students researchers or the non specialists By briefly tracing the paths traveled by the pioneers of different national backgrounds the interviews attempt to put a cultural face to an intellectual endeavor that is often perceived as dry and austere by the uninitiated They should also interest those who are intrigued by the influence of the environment on the creative spirit and in particular those who are interested in the psychology and history of ideas

**The Entrepreneurial State** Mariana Mazzucato, 2024-02-06 Award winning economist Mariana Mazzucato's famously incisive international bestseller debunking the pervasive myth of the inept state versus an innovative private sector with a new preface by the author According to conventional wisdom innovation is best left to the bold entrepreneurs of the private sector and government should get out of the way But what if that wasn't the case What if from the inventions of Silicon Valley to medical breakthroughs the public sector has actually been the most courageous and valuable risk taker of all Critically acclaimed and influential thinker and scholar Mariana Mazzucato argues comprehensively against the myth of a lumbering bureaucratic state versus a dynamic innovative private sector with remarkable original and deep research In a series of case studies from nanotechnology to the emerging green tech of today Mazzucato reveals that the opposite is true the private sector only finds the courage to invest after an entrepreneurial state has made the high risk investments The Entrepreneurial State reveals how every technology that makes the iPhone so smart was actually funded by the government from the Internet and GPS technology to touch screen displays and voice activated Siri In the history of modern capitalism the State has not only fixed market failures but has also actively shaped and created markets In doing so it sometimes wins and sometimes fails Yet by not admitting the State's role in active risk taking we've created an innovation system where the public sector socializes risks while privatizing reward as Mazzucato controversially argues This bold and provocative book considers how we adopted this dysfunctional dynamic and then how we can overcome it so that economic growth can be not only smart but inclusive as well

**Aircraft Propulsion** Saeed Farokhi, 2025-05-21 Updated edition of the successful textbook exploring cutting edge developments in the field and Net Zero aviation goals of 2050 Maintaining the successful foundation of previous editions the fourth edition of Aircraft Propulsion is a forward looking textbook on propulsion from the basic principles to more advanced treatments in engine

components and system integration that focuses on the Net Zero Aviation goals of 2050 This book explores the alphabet of the emerging technology in propulsion by emphasizing electrification and sustainable aviation fuels SAF including liquefied natural gas LNG and hydrogen This book also covers advanced topics like flow control adaptive cycle engines ACE hybrid electric propulsion pulse detonation engines PDE propulsion integration and engine performance testing and instrumentation Along with content updates this new edition devotes a new chapter to supersonic and hypersonic propulsion End of chapter problem sets are included as a learning aid with solutions available on a companion website A quiz appendix with 45 10 minute quizzes helps readers test their knowledge at every stage of learning Aircraft Propulsion includes information on Engine thrust and performance parameters gas turbine engine cycle analysis and aircraft engine inlets and nozzles Combustion chambers and afterburners axial flow compressor and fan aerodynamics centrifugal compressor aerodynamics and gas turbine aerodynamics and heat transfer and cooling technologies Aircraft engine component matching and off design analysis Available on a companion website Compressible flow with friction and heat general aviation and uninhabited aerial vehicle propulsion systems propeller theory and chemical rocket propulsion Aircraft Propulsion is an essential reference on the subject for aerospace and mechanical engineering students in their upper undergraduate or first year graduate studies practicing engineers in industry and research centers working on sustainability and aviation industry engineers

**Fracture Phenomena in Nature and Technology** Davide Bigoni, Angelo Carini, Massimiliano Gei, Alberto Salvadori, 2014-04-29 This book contains contributions presented at the IUTAM Symposium Fracture Phenomena in Nature and Technology held in Brescia Italy 1 5 July 2012 The objective of the Symposium was fracture research interpreted broadly to include new engineering and structural mechanics treatments of damage development and crack growth and also large scale failure processes as exemplified by earthquake or landslide failures ice shelf break up and hydraulic fracturing natural or for resource extraction or CO2 sequestration as well as small scale rupture phenomena in materials physics including e g inception of shear banding void growth adhesion and decohesion in contact and friction crystal dislocation processes and atomic electronic scale treatment of brittle crack tips and fundamental cohesive properties Special emphasis was given to multiscale fracture description and new scale bridging formulations capable to substantiate recent experiments and tailored to become the basis for innovative computational algorithms

**Arnold Sommerfeld** Michael Eckert, 2013-06-24 The subject of the book is a biography of the theoretical physicist Arnold Sommerfeld 1868 1951 Although Sommerfeld is famous as a quantum theorist for the elaboration of the semi classical atomic theory Bohr Sommerfeld model Sommerfeld's fine structure constant his role in the history of modern physics is not confined to atoms and quanta Sommerfeld left his mark in the history of mathematics fluid mechanics a number of physical subdisciplines and in particular as founder of a most productive school Peter Debye Wolfgang Pauli Werner Heisenberg Linus Pauling and Hans Bethe were his pupils to name only the Nobel laureates among them This biography is to a large extent based on primary source material correspondence

diaries unpublished manuscripts It should be of particular interest to students who are keen to know more about the historical roots of modern science Sommerfeld lived through turbulent times of German history Wilhelmian Empire Weimar Republic Nazi period His life therefore illustrates how science and scientists perform in changing social environments From this perspective the biography should also attract readers with a general interest in the history of science and technology

*IAG 150 Years* Chris Rizos,Pascal Willis,2016-08-08 This proceedings contains a selection of peer reviewed papers presented at the IAG Scientific Assembly Postdam Germany 1 6 September 2013 The scientific sessions were focussed on the definition implementation and scientific applications of reference frames gravity field determination and applications the observation and assessment of earth hazards It presents a collection of the contributions on the applications of earth rotations dynamics on observation systems and services as well as on imaging and positioning techniques and its applications

Oscillations, Waves and Patterns in the Physical and Life Sciences Rabih Sultan,Nobuhiko J. Suematsu,Federico Rossi,Istvan Lagzi,2022-11-21 *Congressional Record* United States. Congress,2012 *Perovskites* Richard J. D. Tilley,2016-05-16 Uniquely describes both the crystallography and properties of perovskite related materials Practical applications in solar cells microelectronics and telecommunications Interdisciplinary topic drawing on materials science chemistry physics and geology Contains problems and answers to enhance knowledge retention Monthly Catalog, United States Public Documents United States. Superintendent of Documents,1973 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index **War! What Is It Good For?** Ian Morris,2014-04-15 A powerful and provocative exploration of how war has changed our society for the better War What is it good for Absolutely nothing says the famous song but archaeology history and biology show that war in fact has been good for something Surprising as it sounds war has made humanity safer and richer In War What Is It Good For the renowned historian and archaeologist Ian Morris tells the gruesome gripping story of fifteen thousand years of war going beyond the battles and brutality to reveal what war has really done to and for the world Stone Age people lived in small feuding societies and stood a one in ten or even one in five chance of dying violently In the twentieth century by contrast despite two world wars Hiroshima and the Holocaust fewer than one person in a hundred died violently The explanation War and war alone has created bigger more complex societies ruled by governments that have stamped out internal violence Strangely enough killing has made the world safer and the safety it has produced has allowed people to make the world richer too War has been history s greatest paradox but this searching study of fifteen thousand years of violence suggests that the next half century is going to be the most dangerous of all time If we can survive it the age old dream of ending war may yet come to pass But Morris argues only if we understand what war has been good for can we know where it will take us next Praise for War What Is It Good For Morris s pace is perfect his range dazzling his phrasemaking fluent his humor raucous A rattling

good book Felipe Fernandez Armesto The Wall Street Journal Ian Morris's evidence that war has benefited our species albeit inadvertently is provocative compelling and fearless This book is equally horrific and inspiring detailed and sweeping lighthearted and dead serious For those who think war has been a universal disaster it will change the way they think about the course of history Richard Wrangham coauthor of Demonic Males and author of Catching Fire A disturbing transformative text that veers toward essential reading Kirkus Reviews starred review **Radioactivity** Michael F.

L'Annunziata, 2016-05-13 A recipient of the PROSE 2017 Honorable Mention in Chemistry Physics Radioactivity Introduction and History From the Quantum to Quarks Second Edition provides a greatly expanded overview of radioactivity from natural and artificial sources on earth radiation of cosmic origins and an introduction to the atom and its nucleus The book also includes historical accounts of the lives works and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present These leaders in the field have contributed to our knowledge of the science of the atom its nucleus nuclear decay and subatomic particles that are part of our current knowledge of the structure of matter including the role of quarks leptons and the bosons force carriers Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present Provides a detailed account of nuclear radiation its origin and properties the atom its nucleus and subatomic particles including quarks leptons and force carriers bosons Includes fascinating biographies of the pioneers in the field including captivating anecdotes and insights Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings **Progress in Physics**, 2013 **Thirteenth Marcel Grossmann Meeting, The: On Recent**

**Developments In Theoretical And Experimental General Relativity, Astrophysics And Relativistic Field Theories - Proceedings Of The Mg13 Meeting On General Relativity (In 3 Volumes)** Remo Ruffini, Kjell Rosquist, Robert T Jantzen, 2015-01-26 The Marcel Grossmann Meetings seek to further the development of the foundations and applications of Einstein's general relativity by promoting theoretical understanding in the relevant fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts The meetings discuss recent developments in classical and quantum aspects of gravity and in cosmology and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions having the main objective of gathering scientists from diverse backgrounds for deepening our understanding of spacetime structure and reviewing the current state of the art in the theory observations and experiments pertinent to relativistic gravitation The range of topics is broad going from the more abstract classical theory quantum gravity branes and strings to more concrete relativistic astrophysics observations and modeling The three volumes of the proceedings of MG13 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 33 morning plenary talks during 6 days and 75 parallel sessions over 4 afternoons Volume A contains plenary and review talks ranging

from the mathematical foundations of classical and quantum gravitational theories including recent developments in string brane theories to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including such topics as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star and pulsar astrophysics Volumes B and C include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein s equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy and cosmic rays and the history of general relativity      **African Indigenous Knowledge and the Disciplines** Gloria

Emeagwali,George J Sefa Dei,2014-11-26 This text explores the multidisciplinary context of African Indigenous Knowledge Systems from scholars and scholar activists committed to the interrogation production articulation dissemination and general development of endogenous and indigenous modes of intellectual activity and praxis The work reinforces the demand for the decolonization of the academy and makes the case for a paradigmatic shift in content subject matter and curriculum in institutions in Africa and elsewhere with a view to challenging and rejecting disinformation and intellectual servitude Indigenous intellectual discourses related to diverse disciplines take center stage in this volume with a focus on education mathematics medicine chemistry and engineering in their historical and contemporary context      **Why Philosophy?** Paolo Diego Bubbio,Jeff Malpas,2019-06-04 Do we really need philosophy The present collection of jargon free essays aims at answering the question of why philosophy matters Each essay considers the central question Why Philosophy from different angles the unavoidability of doing philosophy the practical consequences of philosophy philosophy as a therapy for the whole person the benefits of philosophy for improving public policy etc



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