

EXAMINATIONS COUNCIL OF ZAMBIA

Joint Examination for the School Certificate
and General Certificate of Education Ordinary Level

PHYSICS

5054/1

PAPER 1 Multiple Choice

Wednesday

16 OCTOBER 2013

Additional materials:

Multiple choice Answer card

Soft clean eraser

Soft pencil (type B or HB is recommended)

Electronic calculators (non-programmable) or mathematical tables

Time: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not open this question paper until you are told to do so.

Write your name, centre number and candidate number on the Answer Card in the spaces provided unless this has already been done for you.

There are forty (40) questions in this paper.

Answer all questions.

For each question, there are four possible answers, A, B, C and D. Choose the one you consider correct and record your choice in soft pencil on the Answer Card provided.

INFORMATION FOR CANDIDATES

Each correct answer will score one mark. A mark will not be deducted for a wrong answer.

Any rough working should be done in this question paper.

Cell phones are not allowed in the examination room.



S Up June 2013 Physics Paper

Elina Hiltunen, Kari Hiltunen



S Up June 2013 Physics Paper:

Patents and Cartographic Inventions Mark Monmonier, 2017-03-28 This book explores the US patent system which helped practical minded innovators establish intellectual property rights and fulfill the need for achievement that motivates inventors and scholars alike In this sense the patent system was a parallel literature a vetting institution similar to the conventional academic scientific technical journal insofar as the patent examiner was both editor and peer reviewer while the patent attorney was a co author or ghost writer In probing evolving notions of novelty non obviousness and cumulative innovation Mark Monmonier examines rural address guides folding schemes world map projections diverse improvements of the terrestrial globe mechanical route following machines that anticipated the GPS navigator and the early electrical you are here map which opened the way for digital cartography and provided fodder for patent trolls who treat the patent largely as a license to litigate

Advances in Engineering Education in the Middle East and North Africa Mahmoud Abdulwahed, Mazen O. Hasna, Jeffrey E. Froyd, 2015-11-18 This book provides a collection of the latest advances in engineering education in the Middle East and North Africa MENA region and sheds insights for future development It is one of the first books to address the lack of comprehensive literature on undergraduate engineering curricula and stimulates intellectual and critical discourse on the next wave of engineering innovation and education in the MENA region The authors look at recent innovations through the lens of four topics learning and teaching curriculum development assessment and accreditation and challenges and sustainability They also include analyses of pedagogical innovations models for transforming engineering education and methods for using technological innovations to enhance active learning Engineering education topics on issues such as construction health and safety urban design and environmental engineering in the context of the MENA region are covered in further detail The book concludes with practical recommendations for implementations in engineering education This is an ideal book for engineering education academics engineering curriculum developers and accreditation specialists and deans and leaders in engineering education

International Journal of Mathematical Combinatorics, Volume 1, 2013 Linfan Mao, The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

Canadian Journal of Physics ,2013

Security in Computing and Communications Sabu M. Thampi, Guojun Wang, Danda B. Rawat, Ryan Ko, Chun-I Fan, 2021-02-09 This book constitutes revised selected papers of the 8th International Symposium on Security in Computing and Communications SSCC 2020 held in Chennai India in October 2020 Due to the COVID 19 pandemic the conference was held online The 13 revised full papers and 8 revised short papers presented were carefully reviewed and selected from 42 submissions The papers cover wide research fields including cryptography database and storage security human and societal

aspects of security and privacy **Nothingness** Jytte Bang, 2017-07-05 This book addresses nothingness as not only the intangible presence of an emotional cultural social or even political void that is felt on an existential level but has some solid foundations in reality The death of a loved one the social isolation of an individual or the culture shock one may experience in another country are examples of situations in which an external sense of absence mirrors an internal psychological and philosophical sense of nothingness Not much has been explicitly written on nothingness in the history of psychology On the other hand nothingness seems to be implicitly embedded in many scholars work This duality of explicitly and implicitly expressed ideas about nothingness reveals how psychology finds inspiration in philosophy and vice versa The book aims to illustrate how the concept of the presence of absence nothingness fills a void in contemporary psychological theorizing

Non-volatile Memories Pierre-Camille Lacaze, Jean-Claude Lacroix, 2014-12-15 Written for scientists researchers and engineers Non volatile Memories describes the recent research and implementations in relation to the design of a new generation of non volatile electronic memories The objective is to replace existing memories DRAM SRAM EEPROM Flash etc with a universal memory model likely to reach better performances than the current types of memory extremely high commutation speeds high implantation densities and retention time of information of about ten years [Ships and Offshore Structures XIX](#) Carlos Guedes Soares, Y. Garbatov, 2015-09-03 This three volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais Portugal on 7th to 10th September 2015 The International Ship and Offshore Structures Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research The aim of [Systems Approaches to Nuclear Fusion Reactors](#) Frederick B. Marcus, 2023-01-01 This book offers an overall review applying systems engineering and architecture approaches of the design optimization operation and results of leading fusion experiments These approaches provide a unified means of evaluating reactor design Methodologies are developed for more coherent construction or evaluation of fusion devices associated experiments and operating procedures The main focus is on tokamaks with almost all machines and their important results being integrated into a systems design space Case studies focus on DIII D TCV JET WEST the fusion reactor prototype ITER and the EU DEMO concept Stellarator Mirror and Laser inertial confinement experiments are similarly analysed including reactor implications of breakeven at NIF The book examines the engineering and physics design and optimization process for each machine analysing their performance and major results achieved thus establishing a basis for the improvement of future machines The reader will gain a broad historical and up to date perspective of the status of nuclear fusion research from both an engineering and physics point of view Explanations are given of the computational tools needed to design and operate successful experiments and reactor relevant machines This book is aimed at both graduate students and practitioners of nuclear fusion science and engineering as well as those specializing in other fields demanding large and integrated experimental equipment Systems engineers will obtain valuable insights into fusion applications

References are given to associated complex mathematical derivations which are beyond the scope of this book The general reader interested in nuclear fusion will find here an accessible summary of the current state of nuclear fusion

Microfluidics Fouad Sabry,2022-01-16 What Is Microfluidics Microfluidics refers to the behavior precise control and manipulation of fluids that are geometrically constrained to a small scale at which surface forces dominate volumetric forces It is a multidisciplinary field that involves engineering physics chemistry biochemistry nanotechnology and biotechnology It has practical applications in the design of systems that process low volumes of fluids to achieve multiplexing automation and high throughput screening Microfluidics emerged in the beginning of the 1980s and is used in the development of inkjet printheads DNA chips lab on a chip technology micro propulsion and micro thermal technologies How You Will Benefit I Insights and validations about the following topics Chapter 1 Microfluidics Chapter 2 Droplet based microfluidics Chapter 3 Digital microfluidics Chapter 4 Paper based microfluidics Chapter 5 Microfluidic cell culture Chapter 6 Electroosmotic pump Chapter 7 Materials science II Answering the public top questions about microfluidics III Real world examples for the usage of microfluidics in many fields IV 17 appendices to explain briefly 266 emerging technologies in each industry to have 360 degree full understanding of microfluidics technologies Who This Book Is For Professionals undergraduate and graduate students enthusiasts hobbyists and those who want to go beyond basic knowledge or information for any kind of microfluidics

On the Horizon Sarah Minot Asrar,2019-03-30 The papers included in this volume comprise research from participants in the 2018 Nuclear Scholars Initiative and the Project on Nuclear Issues PONI Conference Series PONI sponsors this research to provide a forum for facilitating new and innovative thinking and to provide a platform for emerging thought leaders across the nuclear enterprise The papers in this volume span a wide range of technical and policy issues further discussion in their respective areas and provide innovative recommendations for pressing challenges To that end these papers explore such topics as the impacts of emerging technologies and capabilities deep diving on nuclear strategy and national policies proposing paths forward for addressing proliferation challenges and enhancing arms control in contentious environments

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 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

Fluid Dynamics in Complex Fractured-Porous Systems Boris Faybishenko,Sally M. Benson,John E. Gale,2015-06-04 Despite of many years of studies predicting fluid flow heat and chemical transport in fractured porous media remains a challenge for scientists and engineers worldwide This monograph is the third in a series on the dynamics of fluids and transport in fractured rock published by the American Geophysical Union Geophysical Monograph Series Vol 162 2005 and Geophysical Monograph No 122 2000 This monograph is dedicated to the late Dr Paul Witherspoon for his seminal influence on the development of ideas and methodologies and the birth of contemporary fractured rock hydrogeology including such fundamental and applied problems as environmental remediation exploitation of oil gas and geothermal resources disposal of spent nuclear fuel and geotechnical engineering This monograph addresses fundamental and applied scientific questions and is intended to assist scientists and practitioners bridge gaps in the current scientific knowledge in the areas of theoretical fluids dynamics field measurements and experiments for different practical applications Readers of this book will include researchers engineers and professionals within academia Federal agencies and industry as well as graduate undergraduate students involved in theoretical experimental and numerical modeling studies of fluid dynamics and reactive chemical transport in the unsaturated and saturated zones including studies pertaining to petroleum and geothermal reservoirs environmental management and remediation mining gas storage and radioactive waste isolation in underground repositories Volume highlights include discussions of the following Fundamentals of using a complex systems approach to describe flow and transport in fractured porous media Methods of Field Measurements and Experiments Collective behavior and emergent properties of complex fractured rock systems Connection to the surrounding environment Multi disciplinary research for different applications

Green Polymer Composites Technology 0 Inamuddin,2016-11-03 This book is a comprehensive introduction to green or environmentally friendly polymer composites developed using renewable polymers of natural origin such as starch lignin cellulose acetate poly lactic acid PLA polyhydroxylalkanoates PHA polyhydroxylbutyrate PHB etc and the development of modern technologies for preparing green composites with various applications The book also discusses major applications of green polymer composites in industries such as medicine biotechnology fine chemicals and engineering

Iran and Saudi Arabia Ibrahim Fraihat,2020-02-03 Hostile relations between Iran and Saudi Arabia are a major contributing factor to political instability in the Middle East This book argues that rapprochement between Tehran and

Riyadh is possible and delves into the complexities of managing their long standing conflict By interviewing scholars and former policy makers from the Gulf region and abroad the author draws out the core themes strategies and dynamics of the conflict since the American invasion of Iraq in 2003 to form a basis of an agenda for achieving peace The result is a fresh perspective on a dangerous and unpredictable rift that affects not only its primary parties Iran and Saudi Arabia but also the geopolitics economic stability and civil wars of the wider Middle Eastern region *Technolife 2035* Elina Hiltunen,Kari Hiltunen,2015-10-05 Technology constantly evolves usually slowly and insidiously but always just as surely Things that are currently being developed in laboratories will be in the public domain as different products and applications perhaps as soon as in a few years time and as more refined versions in around ten years time This book deals with the future of technology and explores the influence new technologies may have on life within the next twenty years It is divided into three parts the first of which discusses technological development and the forces and counter forces related to it This section also reviews how advances in technology are forecasted and what kinds of parties make these predictions and provides examples of forecasts for the next couple of decades The second part of the book investigates the various areas of technology and their related trends This section discusses current technological studies which may have concrete impacts in everyday life in a few decades such as those in the fields of energy transportation biotechnology materials ICT robotics medical technology and space technology The third part of the book introduces the authors visions of how technology may develop by 2035 and presents three different scenarios or future worlds These will demonstrate the possible directions in which technological development can take us The scenarios are introduced through two main characters Romeo and Juliet adapted from Shakespeare s play in the year 2035 Even though technology is constantly changing the writers believe that even years into the future the significance of human relations will remain the greatest influence on human life Reviews Of Accelerator Science And Technology - Volume 6: Accelerators For High Intensity Beams Alexander Wu Chao,Weiren Chou,2014-04-01 As particle accelerators strive forever increasing performance high intensity particle beams become one of the critical demands requested across the board by a majority of accelerator users proton electron and ion and for most applications Much effort has been made by our community to pursue high intensity accelerator performance on a number of fronts Recognizing its importance we devote this volume to Accelerators for High Intensity Beams High intensity accelerators have become a frontier and a network for innovation They are responsible for many scientific discoveries and technological breakthroughs that have changed our way of life often taken for granted A wide range of topics is covered in the fourteen articles in this volume On Complementarity: A Universal Organizing Principle Jack Shulman Avrin,2021-08-06 It is not uncommon for the Principle of Complementarity to be invoked in either Science or Philosophy viz the ancient oriental philosophy of Yin and Yang whose symbolic representation is portrayed on the cover of the book Or Niels Bohr s use of it as the basis for the so called Copenhagen interpretation of Quantum Mechanics This book arose as an outgrowth of the author s previous book

entitled *Knots Braids and Moebius Strips* published by World Scientific in 2015 wherein the Principle itself was discovered to be expressible as a simple 2×2 matrix that summarizes the algebraic essence of both the well known Microbiology of DNA and the author's version of the elementary particles of physics At that point the possibility of an even wider utilization of that expression of Complementarity arose The current book features Complementarity in which the matrix algebra is extended to characterize not only DNA itself but the well known process of its replication a most gratifying outcome The book then goes on to explore Complementarity with and without its matrix expression as it occurs not only in much of physics but in its extension to cosmology as well

Nanoelectronics for Next-Generation Integrated Circuits Rohit Dhiman, 2022-11-23 The incessant scaling of complementary metal oxide semiconductor CMOS technology has resulted in significant performance improvements in very large scale integration VLSI design techniques and system architectures This trend is expected to continue in the future but this requires breakthroughs in the design of nano CMOS and post CMOS technologies Nanoelectronics refers to the possible future technologies beyond conventional CMOS scaling limits This volume addresses the current state of the art nanoelectronic technologies and presents potential options for next generation integrated circuits Nanoelectronics for Next generation Integrated Circuits is a useful reference guide for researchers engineers and advanced students working on the frontier of the design and modeling of nanoelectronic devices and their integration aspects with future CMOS circuits This comprehensive volume eloquently presents the design methodologies for spintronics memories quantum dot cellular automata and post CMOS FETs including applications in emerging integrated circuit technologies

The Flipped College Classroom Lucy Santos Green, Jennifer R. Banas, Ross A. Perkins, 2016-11-09 This book provides a descriptive progressive narrative on the flipped classroom including its history connection to theory structure and strategies for implementation Important questions to consider when evaluating the purpose and effectiveness of flipping are answered The book also highlights case studies of flipped higher education classrooms within five different subject areas Each case study is similarly structured to highlight the reasons behind flipping principles guiding flipped instructions strategies used and lessons learned An appendix that contains lesson plans course schedules and descriptions of specific activities is also included

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