



UGANDA NATIONAL EXAMINATIONS BOARD

Uganda Advanced Certificate of Education

PHYSICS

Paper 1  
(Theory)

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*This paper consists of three Sections: A, B and C.*

*Answer five questions, including at least one, but not more than two from each of the sections.*

*Any additional question(s) answered will **not** be marked.*

*Begin answering each question on a fresh page.*

*Silent non-programmable scientific calculators may be used.*

*Assume where necessary:*

Acceleration due to gravity, $g$	= $9.81 \text{ ms}^{-2}$
Electron charge, $e$	= $1.6 \times 10^{-19} \text{ C}$
Electron mass	= $9.11 \times 10^{-31} \text{ kg}$
Mass of the earth	= $5.97 \times 10^{24} \text{ kg}$
Planck's constant, $h$	= $6.6 \times 10^{-34} \text{ Js}$
Stefan's-Boltzmann's constant, $\sigma$	= $5.67 \times 10^{-8} \text{ W m}^{-2} \text{ K}^{-4}$
Radius of the earth	= $6.4 \times 10^6 \text{ m}$
Radius of the sun	= $7.0 \times 10^8 \text{ m}$
Radius of the earth's orbit about the sun	= $1.5 \times 10^{11} \text{ m}$
Speed of light in a vacuum, $c$	= $3.0 \times 10^8 \text{ ms}^{-1}$
Thermal conductivity of copper	= $390 \text{ Wm}^{-1} \text{ K}^{-1}$
Thermal conductivity of aluminium	= $210 \text{ Wm}^{-1} \text{ K}^{-1}$
Specific heat capacity of water	= $4,200 \text{ J kg}^{-1} \text{ K}^{-1}$
Universal gravitational constant, $G$	= $6.67 \times 10^{-11} \text{ N m}^2 \text{ kg}^{-2}$
Avogadro's number, $N_A$	= $6.02 \times 10^{23} \text{ mol}^{-1}$
Surface tension of water	= $7.0 \times 10^{-2} \text{ Nm}^{-1}$
Density of water	= $1000 \text{ kg m}^{-3}$
Gas constant, $R$	= $8.31 \text{ J mol}^{-1} \text{ K}^{-1}$
Charge to mass ratio, $e/m$	= $1.8 \times 10^{11} \text{ C kg}^{-1}$

# Nov Dec 2014 Scope For Physics Paper 1

**EW Minium**



## Nov Dec 2014 Scope For Physics Paper 1:

Special Warfare ,2013      *Physics Briefs* ,1990      **Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)** Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events      *The Oxford Handbook of Cyber Security* Paul Cornish,2021-11-04 Cyber security is concerned with the identification avoidance management and mitigation of risk in or from cyber space The risk concerns harm and damage that might occur as the result of everything from individual carelessness to organised criminality to industrial and national security espionage and at the extreme end of the scale to disabling attacks against a country s critical national infrastructure However there is much more to cyber space than vulnerability risk and threat Cyber space security is an issue of strategy both commercial and technological and whose breadth spans the international regional national and personal It is a matter of hazard and vulnerability as much as an opportunity for social economic and cultural growth Consistent with this outlook The Oxford Handbook of Cyber Security takes a comprehensive and rounded approach to the still evolving topic of cyber security The structure of the Handbook is intended to demonstrate how the scope of cyber security is beyond threat vulnerability and conflict and how it manifests on many levels of human interaction An understanding of cyber security requires us to think not just in terms of policy and strategy but also in terms of technology economy sociology criminology trade and morality Accordingly contributors to the Handbook include experts in cyber security from around the world offering a wide range of perspectives former government officials private sector executives technologists political scientists strategists lawyers criminologists ethicists security consultants and policy analysts      **Highly Integrated Gate Drivers for Si and GaN Power Transistors** Achim Seidel,Bernhard Wicht,2021-03-31 This book explores integrated gate drivers with emphasis on new gallium nitride GaN power transistors which offer fast switching along with minimum switching losses It serves as a comprehensive all in one source for gate driver IC design written in handbook style with systematic guidelines The authors cover the full range from fundamentals to implementation details including topics like power stages various kinds of gate drivers resonant non resonant current source voltage source gate drive schemes driver supply gate loop gate driver power efficiency and comparison silicon versus GaN transistors Solutions are presented on the system and circuit level for highly integrated gate drivers Coverage includes miniaturization by higher integration of subfunctions onto the IC buffer capacitors as well as more efficient switching by a multi level approach which also improves robustness in case of extremely fast switching transitions The discussion also includes a concept for robust operation in the highly relevant case that the gate driver is placed in distance to the power transistor All results are widely applicable to achieve highly compact energy efficient and cost effective power electronics solutions      **Excellent Teaching** Bettina Jansen-Schulz,Till Tantau,2018-10-12 Die Frage wie die Lehre an Hochschulen zu Exzellenz verbessert werden kann beantworten die Autorinnen und Autoren des Sammelbands aus vier

Perspektiven Sie betrachten Herausforderungen für die Steuerung der Organisation Hochschule und diskutieren aktuelle Forschungsentwicklungen insbesondere anhand der Methode Scholarship of Teaching and Learning Außerdem werden gute Beispiele aus der Lehrpraxis präsentiert und Ansätze vorgestellt um exzellente Lehre sichtbar zu machen Der Band richtet sich an Akteurinnen und Akteure aus der Lehr- und Hochschulentwicklung Complexity Economics Olivér Kovács, 2022-07-15 Our socio economic innovation ecosystem is riddled with ever increasing complexity as we are faced with more frequent and intense shocks such as COVID 19 Unfortunately addressing complexity requires a different kind of economic governance There is increasing pressure on economics to not only going beyond its traditional mainstream boundaries but also to tackle real world problems such as fostering structural change enhancing sustained growth promoting inclusive development in the era of the digital economy and boosting green growth while addressing the divide between the financial sector and the real economy This book demonstrates how to apply complexity science to economics in an effective and instructive way in the interest of life enhancing policies The book revolves around the non negligible problem of why economics to date seems to be inadequate in guiding economic governance to navigate through real and ever intensifying complex socio economic and environmental challenges With its interdisciplinary approach the book scans the nuanced nexus between complexity and economics by incorporating as well as transcending the state of the art literature It identifies ways to trigger opportunities for behavioural change in the economic profession with respect to how and what to teach introducing and developing further complexity economics taking into account the configuration of its main principles and outlining the silhouette of next generation economic governance The book deciphers recommendations for economic theory practice education and economic governance It will be of interest to students scholars academics think tank researchers and economic policy practitioners at the national and or supranational levels *Advances in Computing, Communication, Automation and Biomedical Technology* M. G. Sumithra ,Arulmurugan Ramu ,Chow Chee Onn, 2020-12-30 *Advances in Computing Communication Automation and Biomedical Technology* aims to bring together leading academic scientists researchers industry representatives postdoctoral fellows and research scholars around the world to share their knowledge and research expertise to advances in the areas of Computing Communication Electrical Civil Mechanical and Biomedical Systems as well as to create a prospective collaboration and networking on various areas It also provides a premier interdisciplinary platform for researchers practitioners and educators to present and discuss the most recent innovations trends and concerns as well as practical challenges encountered and solutions adopted in the fields of innovation *Applied Mechanics Reviews* ,1977 World Who's who in Commerce and Industry ,1963 Superalloys 2024 Jonathan Cormier, Ian Edmonds, Stephane Forsik, Paraskevas Kontis, Corey O'Connell, Timothy Smith, Akane Suzuki, Sammy Tin, Jian Zhang, 2024-08-20 The 15th International Symposium on Superalloys Superalloys 2024 highlights technologies for lifecycle improvement of superalloys In addition to the traditional focus areas of alloy development processing mechanical behavior

coatings and environmental effects this volume includes contributions from academia supply chain and product user members of the superalloy community that highlight technologies that contribute to improving manufacturability affordability life prediction and performance of superalloys      **Future Spacecraft Propulsion Systems and Integration** Paul A.

Czysz,Claudio Bruno,Bernd Chudoba,2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike      **On Neutrosophic Crisp Supra Topological Spaces**

V. Amarendra Babu,P.Rajasekhar, The aim of this paper is to introduce the concepts of closure interior neighbourhood base and local base of neutrosophic crisp supra topological spaces and some of its characterizations are investigated

*Proceedings of the National Institute of Sciences of India* National Institute of Sciences of India,1966      Mechanics of Structures and Materials XXIV Hong Hao,Chunwei Zhang,2019-08-08 *Mechanics of Structures and Materials Advancements and Challenges* is a collection of peer reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials ACMSM24 Curtin University Perth Western Australia 6 9 December 2016 The contributions from academics researchers and practising engineers from Australasian Asia pacific region and around the world cover a wide range of topics including Structural mechanics Computational mechanics Reinforced and prestressed concrete structures Steel structures Composite structures Civil engineering materials Fire engineering Coastal and offshore structures Dynamic analysis of structures Structural health monitoring and damage identification Structural reliability analysis and design Structural optimization Fracture and damage mechanics Soil mechanics and foundation engineering Pavement materials and technology Shock and impact loading Earthquake loading Traffic and other man made loadings Wave and wind loading Thermal effects Design codes *Mechanics of Structures and Materials Advancements and Challenges* will be of interest to academics and professionals involved in Structural Engineering and Materials Science      **Forthcoming Books** Rose

Army,1994-02      *Soviet Physics, JETP.* ,1985      Government Reports Announcements & Index ,1995-07      □□□ □□•□□□□

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web this course provides theoretical training to artisans and is offered via the nated programme n2 is the intermediate level in this 3 level engineering programme learn the skills and techniques to manufacture construct assemble and fit components for machinery vehicles installations and other apparatus or articles

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web the national certificate vocational for fitting turning comprises four engineering subjects including practical assessments in the fitting turning workshop fitters turners are highly skilled artisans who manufacture and construct components for machinery and use tools such as lathes milling and drilling machines

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web the compulsory subjects for fitting and turning n1 n3 are mathematics engineering science and engineering drawing and for n1 n2 you need to do fitting and machining however in n3 fitting and machining is replaced by mechanotechnology

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