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REPUBLIC OF SOUTH AFRICA

## NATIONAL SENIOR CERTIFICATE

GRADE 12

MATHEMATICAL LITERACY P1

NOVEMBER 2012

FINAL MEMORANDUM

MARKS: 150

Symbol	Explanation
M	Method
MA	Method with accuracy
CA	Consistent accuracy
A	Accuracy
C	Conversion
S	Simplification
RT/RG	Reading from a table/Reading from a graph
SF	Correct substitution in a formula
O	Opinion/Example
P	Penalty, e.g. for no units, incorrect rounding off etc.
R	Rounding off

### PLEASE NOTE:

1. If a candidate deletes a solution to a question without providing another solution, then the deleted solution must be marked.
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**This memorandum consists of 15 pages.**

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# Mathematics Paper 1 November 2012 Memorandum

**John Wallis, Christoph J. Scriba, Philip  
Beeley**



## **Mathematics Paper 1 November 2012 Memorandum:**

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Mathematics And Its Teaching In The Southern Americas: With An Introduction By Ubiratan D'ambrosio Hector Rosario, Bruce R Vogeli, Patrick Scott, 2014-09-26 This anthology presents a comprehensive review of mathematics and its teaching in the following nations in South America Central America and the Caribbean Argentina Bolivia Brazil Chile Colombia Costa Rica Cuba Guyana Haiti Honduras Mexico Panama Paraguay Peru Puerto Rico Trinidad and Tobago and Venezuela The last summary of mathematics education encompassing countries from the Southern Americas appeared in 1966 Progress in the field during five decades has remained unexamined until now

**Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model** Raphaël Cerf, 2014-12-20 The goal of this work is to propose a finite population counterpart to Eigen's model which incorporates stochastic effects The author considers a Moran model describing the evolution of a population of size of chromosomes of length over an alphabet of cardinality The mutation probability per locus is He deals only with the sharp peak landscape the replication rate is for the master sequence and for the other sequences He studies the equilibrium distribution of the process in the regime where

*Irreducible Almost Simple Subgroups of Classical Algebraic Groups* Timothy C. Burness, Soumaia Ghandour, Claude Marion, Donna M. Testerman, 2015-06-26 Let  $G$  be a simple classical algebraic group over an algebraically closed field of characteristic with natural module Let  $H$  be a closed subgroup of  $G$  and let  $V$  be a nontrivial restricted irreducible tensor indecomposable rational module such that the restriction of  $V$  to  $H$  is irreducible In this paper the authors classify the triples of this form where  $H$  is a disconnected almost simple positive dimensional closed subgroup of  $G$  acting irreducibly on  $V$  Moreover by combining this result with earlier work they complete the classification of the irreducible triples where  $G$  is a simple algebraic group over  $k$  and  $H$  is a maximal closed subgroup of positive dimension

**Thorium Energy for the World** Jean-Pierre Revol, Maurice Bourquin, Yacine Kadi, Egil Lillestøl, Jean-Christophe de Mestral, Karel Samec, 2016-04-05 The Thorium Energy Conference ThEC13 gathered some of the world's leading experts on thorium technologies to review the possibility of destroying nuclear waste in the short term and replacing the uranium fuel cycle in nuclear systems with the thorium fuel cycle in the long term The latter would provide abundant reliable and safe energy with no CO<sub>2</sub> production no air pollution and minimal waste production The participants representatives of 30 countries included Carlo Rubbia Nobel Prize Laureate in physics and

inventor of the Energy Amplifier Jack Steinberger Nobel Prize Laureate in physics Hans Blix former Director General of the International Atomic Energy Agency IAEA Rolf Heuer Director General of CERN Pascal Couchepin former President of the Swiss Confederation and Claude Haegi President of the FEDRE to name just a few The ThEC13 proceedings are a source of reference on the use of thorium for energy generation They offer detailed technical reviews of the status of thorium energy technologies from basic R D to industrial developments They also describe how thorium can be used in critical reactors and in subcritical accelerator driven systems ADS answering the important questions Why is thorium so attractive and what is the role of innovation in particular in the nuclear energy domain What are the national and international R D programs on thorium technologies and how are they progressing ThEC13 was organized jointly by the international Thorium Energy Committee iThEC an association based in Geneva and the International Thorium Energy Organisation IThEO It was held in the Globe of Science and Innovation at the European Organization for Nuclear Research CERN Geneva Switzerland in October 2013

**High-Integrity System Specification and Design** Jonathan P. Bowen, Michael G. Hinchey, 2012-12-06  
Errata detected in Taylor s Logarithms London 4to 1792 sic 14 18 3 6 Kk Co sine of 3398 3298 Nautical Almanac 1832 In the list of ERRATA detected in Taylor s Logarithms for cos 4 18 3 read cos 14 18 2 Nautical Almanac 1833 ERRATUM of the ERRATUM of the ERRATA of TAYLOR S Logarithms For cos 4 18 3 read cos 14 18 3 Nautical Almanac 1836 In the 1820s an Englishman named Charles Babbage designed and partly built a calculating machine originally intended for use in deriving and printing logarithmic and other tables used in the shipping industry At that time such tables were often inaccurately copied carelessly and had been instrumental in causing a number of maritime disasters Babbage s machine called a Difference Engine because it performed its calculations using the principle of partial differences was intended to substantially reduce the number of errors made by humans calculating the tables Babbage had also designed but never built a forerunner of the modern printer which would also reduce the number of errors admitted during the transcription of the results Nowadays a system implemented to perform the function of Babbage s engine would be classed as safety critical That is the failure of the system to produce correct results could result in the loss of human life mass destruction of property in the form of ships and cargo as well as financial losses and loss of competitive advantage for the shipping firm

**Women Scientists in America** Margaret W. Rossiter, 2012-04-02 With the thoroughness and resourcefulness that characterize the earlier volumes she recounts the rich history of the courageous and resolute women determined to realize their scientific ambitions Disorder and the Disinformation Society Jonathan Paul Marshall, James Goodman, Didar Zowghi, Francesca da Rimini, 2015-04-17 This book is the first general social analysis that seriously considers the daily experience of information disruption and software failure within contemporary Western society Through an investigation of informationalism defined as a contemporary form of capitalism it describes the social processes producing informational disorder While most social theory sees disorder as secondary pathological or uninteresting this book takes disordering processes as central to social life The book engages with

theories of information society which privilege information order offering a strong counterpoint centred on disinformation Disorder and the Disinformation Society offers a practical agenda arguing that difficulties in producing software are both inherent to the process of developing software and in the social dynamics of informationalism It outlines the dynamics of software failure as they impinge on of information workers and on daily life explores why computerized finance has become inherently self disruptive asks how digital enclosure and intellectual property create conflicts over cultural creativity and disrupt informational accuracy and scholarship and reveals how social media can extend but also distort the development of social movements

**Game Theory and Applications** Deng-Feng Li,Xiao-Guang Yang,Marc Uetz,Gen-Jiu Xu,2017-10-13 This volume constitutes the refereed post conference proceedings of the 3rd Joint China Dutch Workshop on Game Theory and Applications and the 7th China Meeting on Game Theory and Applications GTA 2016 held in Fuzhou China in November 2016 The 25 revised full papers presented were carefully reviewed and selected from 60 full paper submissions They deal with a broad range of topics in the areas of non cooperative and cooperative games non cooperative and cooperative games under uncertainty and their applications

Situational Awareness in Computer Network Defense: Principles, Methods and Applications Onwubiko, Cyril,Owens, Thomas,2012-01-31 This book provides academia and organizations insights into practical and applied solutions frameworks technologies and implementations for situational awareness in computer networks Provided by publisher

Logic Programming I. Balbin,K. Lecot,2012-12-06 Logic Programming was effectively defined as a discipline in the early seventies It is only during the early to mid eighties that books conferences and journals devoted entirely to Logic Programming began to appear Consequently much of the work done during this first crucial decade in Marseilles Edinburgh London Budapest and Stockholm to name a few is often overlooked or difficult to trace There are now two main regular conferences on Logic Programming and at least five journals The Journal of Logic Programming New Generation Computing Automated Reasoning The Journal of Symbolic Computation and Future Generation Computer Systems Logic Programming however has its roots in Automated Theorem Proving and via the expanding area of expert systems strongly influences researchers in such varied fields as Civil Engineering Chemistry Law etc Consequently many papers related to Logic Programming appear in a wide variety of journals and proceedings of conferences in other disciplines This is particularly true of Computer Science where a revolution is taking place in hardware design programming languages and more recently databases One cannot overestimate the importance of such a bibliography

Multibody Systems Handbook Werner Schiehlen,2012-12-06 Dynamics of multibody systems is of great importance in the fields of robotics biomechanics spacecraft control road and rail vehicle design and dynamics of machinery Many research problems have been solved and a considerable number of computer codes based on multibody formalisms is now available With the present book it is intended to collect software systems for multibody system dynamics which are well established and have found acceptance in the users community The Handbook will aid the reader in selecting the software system which is most appropriate to his needs

Altogether 17 research groups contributed to the Handbook A compact summary of important capabilities of these software systems is presented in tabular form All authors dealt with two typical test examples a planar mechanism and a spatial robot Thus it is very easy to compare the results and to identify more clearly the advantages of one or the other formalism

Something Incredibly Wonderful Happens K. C. Cole, 2012-08-15 Cole a friend and colleague of Frank Oppenheimer s for many years has drawn from letters documents and extensive interviews to write a very personal story of the man whose irrepressible spirit would inspire so many

*22 Topic-wise CTET Paper 1 (Hindi Edition) Previous Year Solved Papers (2024 - 2011) Class 1 - 5 Shikshak | Child Development & Pedagogy, English, Hindi, EVS & Mathematics* Disha Experts, 2024-10-22 The First Hindi edition of the book 22 TOPIC WISE CTET Paper 1 Solved Papers 2024 2011 Hindi Edition contains detailed Solutions to the Past 22 Solved Papers of the CTET exam from 2011 to 2024 The past 22 CTET Solved papers included are June 2011 Jan Section II mathematics has 15 Topics Section III EVS has 13 Topics Section IV English 11 Topics Section V Hindi has 10 Topics The detailed solutions are provided immediately after each topic Solutions are provided for each question The languages covered in the tests are English 1st language and Hindi 2nd language The book is 100% useful for UPTET HTET MPTET CGTET UKTET HPTET BTET PTET and other STET Exam

**Who's who Among Students in American Universities and Colleges** Henry Pettus Randall, 1976

**Correspondence of John Wallis (1616-1703)** John Wallis, Christoph J. Scriba, Philip Beeley, 2012-05-03 Vol 2 This is the second in a six volume compendium on the correspondences of John Wallis 1616 1703 Wallis was Savilian Professor of Geometry at Oxford from 1649 until his death and was a founding member of the Royal Society and a central figure in the scientific and intellectual history of England

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