

N.B. (1) Question No. 1 is compulsory.

(2) Attempt any four questions from Question Nos. 2 to 6.

1. (a) Find non singular matrices P and Q such that PAQ is in normal form and 10

hence find rank of A where $A = \begin{bmatrix} 1 & 2 & 3 & -2 \\ 2 & -2 & 1 & 3 \\ 3 & 0 & 4 & 1 \end{bmatrix}$

- (b) Solve $\frac{dy}{dx} + \frac{y \cos x + \sin y + y}{\sin x + x \cos y + x} = 0$. 10

2. (a) Solve the system of equations : 10

$$x + 3y - 2z = 0$$

$$2x - y + 4z = 0$$

$$x - 11y + 14z = 0$$

- (b) If $u = f(e^{y-z}, e^{z-x}, e^{x-y})$ then show that— 10

$$\frac{\partial u}{\partial x} + \frac{\partial u}{\partial y} + \frac{\partial u}{\partial z} = 0.$$

3. (a) Find the inverse of a matrix— 10

$$\begin{bmatrix} 1 & 1 & 1 \\ 1 & 2 & -3 \\ 2 & -1 & 3 \end{bmatrix}$$

- (b) Solve $(y^4 + 2y)dx + (xy^3 + 2y^4 - 4x)dy = 0$. 10

4. (a) If $u = \frac{xy}{2x+z}$ Prove that $\frac{\partial^3 u}{\partial y \partial z^2} = \frac{\partial^3 u}{\partial z^2 \partial y}$. 10

- (b) If $A = \begin{bmatrix} 3 & -3 & 4 \\ 2 & -3 & 4 \\ 0 & -1 & 1 \end{bmatrix}$ show that $A^3 = A^{-1}$. 10

5. (a) Examine the vectors $[1, -1, 1]$, $[2, 1, 1]$ and $[3, 0, 2]$ are L.I. or L.D. 10

- (b) Solve $(1 + x + xy^2)dy + (y + y^3)dx = 0$. 10

6. (a) Solve $x \frac{dy}{dx} + \frac{y^2}{x} = y$. 10

- (b) Find the Eigen values and Eigen vectors of $\begin{bmatrix} 1 & 1 & -1 \\ 1 & 2 & 1 \\ -1 & 1 & 3 \end{bmatrix}$. 10

Jan 2014 Maths C3 Paper

J Elliott



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The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before *Brown v Board of Education* Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools *How America Stacks Up* Edward Alden, Rebecca Strauss, 2016-02-01 American leadership in the world is built on the foundation of its economic strength Yet the United States faces enormous economic competition abroad and threats to its economy at home In *How America Stacks Up* Economic Competitiveness and U S Policy Edward Alden Bernard L Schwartz senior fellow at the Council on Foreign Relations and director of the Renewing America initiative and Rebecca Strauss associate director of Renewing America focus on those areas of economic policy that are the most important for reinforcing America's competitive strengths Covering education transportation trade and investment corporate tax worker retraining regulation debt and deficits and innovation *How America Stacks Up* shows how in a highly competitive global economy these seemingly domestic issues are all crucial to U S success in the global economy The line between domestic economic policy and foreign economic policy is now almost invisible and getting these policies right matters for more than just U S living standards The United States ability to influence world events rests on a robust competitive economy But without further investment in education infrastructure and innovation Alden and Strauss show the United States runs the risk of endangering its greatest competitive advantage Through insightful analysis and engaging graphics *How America Stacks Up* outlines the challenges faced by the United States and prescribes solutions that will ensure a healthy competitive U S economy for years to come Algorithmic Randomness Johanna N. Y. Franklin, Christopher P. Porter, 2020-05-07 The last two decades have seen a wave of exciting new

developments in the theory of algorithmic randomness and its applications to other areas of mathematics This volume surveys much of the recent work that has not been included in published volumes until now It contains a range of articles on algorithmic randomness and its interactions with closely related topics such as computability theory and computational complexity as well as wider applications in areas of mathematics including analysis probability and ergodic theory In addition to being an indispensable reference for researchers in algorithmic randomness the unified view of the theory presented here makes this an excellent entry point for graduate students and other newcomers to the field Applied Mechanics Reviews

,1995 **Global Women's Work** Beth English,Mary E. Frederickson,Olga Sanmiguel-Valderrama,2018-12-07 This volume considers how women are shaping the global economic landscape through their labor activism and multiple discourses about work Bringing together an interdisciplinary group of international scholars the book offers a gendered examination of work in the global economy and analyses the effects of the 2008 downturn on women s labor force participation and workplace activism The book addresses three key themes exploitation versus opportunity women s agency within the context of changing economic options and women s negotiations and renegotiations of unpaid social reproductive labor This uniquely interdisciplinary and comparative analysis will be crucial reading for anyone with an interest in gender and the post crisis world ICGG 2018 - Proceedings of the 18th International Conference on Geometry and Graphics Luigi

Cocchiarella,2018-07-06 This book gathers peer reviewed papers presented at the 18th International Conference on Geometry and Graphics ICGG held in Milan Italy on August 3 7 2018 The spectrum of papers ranges from theoretical research to applications including education in several fields of science technology and the arts The ICGG 2018 mainly focused on the following topics and subtopics Theoretical Graphics and Geometry Geometry of Curves and Surfaces Kinematic and Descriptive Geometry Computer Aided Geometric Design Applied Geometry and Graphics Modeling of Objects Phenomena and Processes Applications of Geometry in Engineering Art and Architecture Computer Animation and Games Graphic Simulation in Urban and Territorial Studies Engineering Computer Graphics Computer Aided Design and Drafting Computational Geometry Geometric and Solid Modeling Image Synthesis Pattern Recognition Digital Image Processing and Graphics Education Education Technology Research Multimedia Educational Software Development E learning Virtual Reality Educational Systems Educational Software Development Tools MOOCs Given its breadth of coverage the book introduces engineers architects and designers interested in computer applications graphics and geometry to the latest advances in the field with a particular focus on science the arts and mathematics education **International Journal of**

Mathematical Combinatorics, Volume 3, 2015 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 *Africa*

and the Millennium Development Goals Charles Mutasa, Mark Paterson, 2015-10-29 This unique work by the Centre for Conflict Resolution CCR Cape Town South Africa tracks the progress Africa has made in achieving the United Nations Millennium Development Goals MDGs since 2000 Thirteen analytical chapters written by scholars and practitioners with expertise in the various areas covered by the eight MDGs are organized around the larger themes of political economy structural issues sustainable goals and human development goals They critically assess the progress that Africa has made towards the achievement of the MDGs discuss how to accelerate that progress and offer alternatives and recommendations in support of institutions in Africa that are engaged in promoting the achievement of sustainable development Throughout they examine the role of various actors including the African Union Africa's regional economic communities the United Nations the European Union etc civil society and other external development partners in light of their contributions shortfalls and viable options in shaping the continent's development agenda Together they provide a unique assessment from experts on the ground of whether the goals were a success and what remains to be done to achieve sustainable economic and human development in Africa

Staying with the Trouble Donna J. Haraway, 2016-08-25 In the midst of spiraling ecological devastation multispecies feminist theorist Donna J Haraway offers provocative new ways to reconfigure our relations to the earth and all its inhabitants She eschews referring to our current epoch as the Anthropocene preferring to conceptualize it as what she calls the Chthulucene as it more aptly and fully describes our epoch as one in which the human and nonhuman are inextricably linked in tentacular practices The Chthulucene Haraway explains requires sym poiesis or making with rather than auto poiesis or self making Learning to stay with the trouble of living and dying together on a damaged earth will prove more conducive to the kind of thinking that would provide the means to building more livable futures Theoretically and methodologically driven by the signifier SF string figures science fact science fiction speculative feminism speculative fabulation so far *Staying with the Trouble* further cements Haraway's reputation as one of the most daring and original thinkers of our time

MATHEMATICAL COMBINATORICS (INTERNATIONAL BOOK SERIES), VOLUME 3, 2015 L. Mao, Contents A Calculus and Algebra Derived from Directed Graph Algebras By Kh Shahbazzpour and Mahdihe Nouri 01 Superior Edge Bimagic Labelling By R Jagadeesh and J Baskar Babujee 33 Spherical Images of Special Smarandache Curves in E3 By Vahide Bulut and Ali Caliskan 43 Variations of Orthogonality of Latin Squares By Vadiraja Bhatta G R and B R Shankar 55 The Minimum Equitable Domination Energy of a Graph By P Rajendra and R Rangarajan 62 Some Results on Relaxed Mean Labeling By V Maheswari D S T Ramesh and V Balaji 73 Split Geodetic Number of a Line Graph By Venkanagouda M Goudar and Ashalatha K S 81 Skolem Difference Odd Mean Labeling For Some Simple Graphs By R Vasuki J Venkateswari and G Pooranam 88 Radio Number for Special Family of Graphs with Diameter 2 3 and 4 By M Murugan 99 Vertex to Edge set Distance Neighborhood Pattern Matrices By Kishori P Narayankar and Lokesh S B 105 Extended Results on Complementary Tree Domination Number and Chromatic Number of Graphs By S Muthammai and P Vidhya 116 On Integer Additive Set

Sequential Graphs By N K Sudev and K A Germina 125

Levers of Power Michael Schwartz, Tarun Banerjee, Kevin A.

Young, 2020-07-07 It is no secret that the 1% the business elite that commands the largest corporations and the connected network of public and private institutions exercise enormous control over U S government While this control is usually attributed to campaign donations and lobbying Disruptive Power argues that corporate power derives from control over the economic resources on which daily life depends Government officials must constantly strive to keep capitalists happy lest they go on capital strike that is refuse to invest in particular industries or locations or move their holdings to other countries and therefore impose material hardship on specific groups or the economy as a whole For this reason even politicians who are not dependent on corporations for their electoral success must fend off the interruption of corporate investment Disruptive Power documents the pervasive power of corporations and other institutions with decision making control over large pools of capital particularly the Pentagon It also shows that the most successful reform movements in recent U S history for workers rights for civil rights and against imperialist wars succeeded by directly targeting the corporations and other institutional adversaries that initiated and benefitted from oppressive policies Though most of today's social movements focus on elections and politicians movements of the 99% are most effective when they inflict direct costs on corporations and their allied institutions This strategy is also more conducive to building a revolutionary mass movement that can replace current institutions with democratic alternatives

Representations of Algebras Graham J. Leuschke, Frauke

Bleher, Ralf Schiffler, Dan I. Zacharia, 2018 Contains the proceedings of the 17th Workshop and International Conference on Representations of Algebras ICRA 2016 held in August 2016 at Syracuse University This volume includes three survey articles based on short courses in the areas of commutative algebraic groups modular group representation theory and thick tensor ideals of bounded derived categories

Women in MathArt Shanna Dobson, 2024-12-06 This volume contains the proceedings from the first Women in MathArt Research Collaboration Conference for Women showcasing women mathematicians researching and curating creative pedagogies at the intersection of mathematics and the arts This volume contains contributions to mathart projects from student mentor teams and researchers in all stages of their careers The volume also contains survey articles on new mathart intersections such as neuroaesthetics generative design generative adversarial networks and Langlands Program New results of particular interest are diamond Langlands generative design in the geometrization of the local Langlands Program investigations of the grammarology and visual epistemology of perfectoid diamonds in mathematics as grammarological metaphor infinity category constructions of pro Generative Adversarial Networks infinity stackification of mathematical exigency condensing temporal logic with entropic categorizations perfectoid diamond holography neuroaesthetics in immunology Also included is the result to foster a more inclusive work community of mathematicians using the arts as a tool to bring more vulnerability and integrity to each individual's research life Readers are herein provided a rigorous overview of current mathart developments and future mathart projects

Rethinking Society

for the 21st Century: Volume 1, Socio-Economic Transformations International Panel on Social Progress (IPSP),2018-07-19

This is the first of three volumes containing a report from the International Panel on Social Progress IPSP The IPSP is an independent association of top research scholars with the goal of assessing methods for improving the main institutions of modern societies Written in accessible language by scholars across the social sciences and humanities these volumes assess the achievements of world societies in past centuries the current trends the dangers that we are now facing and the possible futures in the twenty first century It covers the main socio economic political and cultural dimensions of social progress global as well as regional issues and the diversity of challenges and their interplay around the world This particular volume covers topics such as economic inequality and growth finance and corporations labor capitalism and social justice Maker Pedagogy Bridget Looney,2025-08-18 Maker pedagogy s focus on democratic participation equity and empowerment extends to school leadership where it calls upon teachers students and those in formal school leadership roles to examine and develop school policies and practices together Notable Books, Notable Lessons Andrea S. Libresco,Jeannette Balantic,Mary Battenfeld,2017-09-21 This book provides teachers librarians and education methods professors with strategies lesson plans and activities that enable them to use literature as a springboard to social studies thematic instruction With the amount of time and resources allocated to teaching social studies being significantly reduced social studies lessons need to be incorporated into other subjects Notable Books Notable Lessons Putting Social Studies Back in the K 8 Curriculum offers the tools to teach students social studies concepts that are increasingly relevant and essential in today s diverse globalized world lessons that are vital in order to prepare students to think critically and participate in our multicultural democracy Providing information that elementary and middle school teachers and librarians district level curriculum directors and principals staff developers and social studies and literacy methods professors will find extremely useful this book uses the National Council for the Social Studies NCSS Children s Book Council CBC s current and past lists of Notable Books at the elementary and middle school levels to offer easy to follow lesson plans that integrate social studies instruction with reading and language arts The lesson plans pose compelling questions to facilitate discussion and critical thinking and suggest engaging activities that are connected to the social studies concepts The book also includes sample student handouts for the selected pieces of literature **Helping Children Learn Mathematics, 5th Australian Edition** Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,Anna Rogers,Leicha Bragg,Audrey Cooke,Melissa Fanshawe,Mark Gronow,2025-10-10

Improving Bayesian Reasoning: What Works and Why? Gorka Navarrete,David R. Mandel,2016-02-02 We confess that the first part of our title is somewhat of a misnomer Bayesian reasoning is a normative approach to probabilistic belief revision and as such it is in need of no improvement Rather it is the typical individual whose reasoning and judgments often fall short of the Bayesian ideal who is the focus of improvement What have we learnt from over a half century of research and theory on this topic that could explain why people are often non Bayesian Can Bayesian reasoning be facilitated and if so why These

are the questions that motivate this Frontiers in Psychology Research Topic Bayes theorem named after English statistician philosopher and Presbyterian minister Thomas Bayes offers a method for updating one's prior probability of an hypothesis H on the basis of new data D such that $P(H|D) = \frac{P(D|H)P(H)}{P(D)}$ The first wave of psychological research pioneered by Ward Edwards revealed that people were overly conservative in updating their posterior probabilities i.e. $P(H|D) < \frac{P(D|H)P(H)}{P(D)}$ A second wave spearheaded by Daniel Kahneman and Amos Tversky showed that people often ignored prior probabilities or base rates where the priors had a frequentist interpretation and hence were not Bayesians at all In the 1990s a third wave of research spurred by Leda Cosmides and John Tooby and by Gerd Gigerenzer and Ulrich Hoffrage showed that people can reason more like a Bayesian if only the information provided takes the form of non relativized natural frequencies Although Kahneman and Tversky had already noted the advantages of frequency representations it was the third wave scholars who pushed the prescriptive agenda arguing that there are feasible and effective methods for improving belief revision Most scholars now agree that natural frequency representations do facilitate Bayesian reasoning However they do not agree on why this is so The original third wave scholars favor an evolutionary account that posits human brain adaptation to natural frequency processing But almost as soon as this view was proposed other scholars challenged it arguing that such evolutionary assumptions were not needed The dominant opposing view has been that the benefit of natural frequencies is mainly due to the fact that such representations make the nested set relations perfectly transparent Thus people can more easily see what information they need to focus on and how to simply combine it This Research Topic aims to take stock of where we are at present Are we in a proto fourth wave If so does it offer a synthesis of recent theoretical disagreements The second part of the title orients the reader to the two main subtopics what works and why In terms of the first subtopic we seek contributions that advance understanding of how to improve people's abilities to revise their beliefs and to integrate probabilistic information effectively The second subtopic centers on explaining why methods that improve non Bayesian reasoning work as well as they do In addressing that issue we welcome both critical analyses of existing theories as well as fresh perspectives For both subtopics we welcome the full range of manuscript types

STEM Education: An Emerging Field of Inquiry

,2018-11-01 The second decade of the 21st century has seen governments and industry globally intensify their focus on the role of science technology engineering and mathematics STEM as a vehicle for future economic prosperity Economic opportunities for new industries that are emerging from technological advances such as those emerging from the field of artificial intelligence also require greater capabilities in science mathematics engineering and technologies In response to such opportunities and challenges government policies that position STEM as a critical driver of economic prosperity have burgeoned in recent years Common to all these policies are consistent messages that STEM related industries are the key to future international competitiveness productivity and economic prosperity This book presents a contemporary focus on significant issues in STEM teaching learning and research that are valuable in preparing students for a digital 21st century

The book chapters cover a wide spectrum of issues and topics using a wealth of research methodologies and methods ranging from STEM definitions to virtual reality in the classroom multiplicative thinking STEM in pre school primary secondary and tertiary education opportunities and obstacles in STEM inquiry based learning in statistics values in STEM education and building academic leadership in STEM The book is an important representation of some of the work currently being done by research active academics It will appeal to academics researchers teacher educators educational administrators teachers and anyone interested in contemporary STEM Education related research in a rapidly changing globally interconnected world Contributors are Natalie Banks Anastasios Tasos Barkatsas Amanda Berry Lisa Borgerding Nicky Carr Io Keong Cheong Grant Cooper Jan van Driel Jennifer Earle Susan Fraser Noleine Fitzallen Tricia Forrester Helen Georgiou Andrew Gilbert Ineke Henze Linda Hobbs Sarah Howard Sylvia Sao Leng Leong Chunlian Jiang Kathy Jordan Belinda Kennedy Zsolt Lavicza Tricia McLaughlin Wendy Nielsen Shalveena Prasad Theodosia Prodromou Wee Tiong Seah Dianne Siemon Li Ping Thong Tessa E Vossen and Marc J de Vries

Multi-scale Variability of Ecosystem Functioning in European and Chinese Shelf Seas Xueen Chen, Qicheng Meng, Jie Nie, Wenyan Zhang, Jun Sun, Ute Daewel, 2024-08-26

Continued global warming and ocean acidification are predicted with high confidence while the direction and magnitude of changes of other atmospheric drivers e.g. precipitation wind and nutrient loading are of high uncertainty and regionally dependent Biogeochemical responses of coastal shelf seas to external drivers are often nonlinear involving feedback that may amplify or dampen a perturbation imposed on the system Coupled physical biogeochemical process based numerical models have proven useful in elucidating the mechanistic interplay and relative importance of the different factors contributing to ecosystem functioning with increasing realism This research topic aims to understand and compare marine ecosystem functioning in Chinese and European shelf seas based on studies that use state of the art modeling and monitoring of coastal ecosystem dynamics This topic will enable more efficient knowledge share and distribution through a comparative assessment between distinct coastal shelf systems in China and Europe to further our understanding of complicated ecosystem dynamics in response to a changing climate and increasing anthropogenic pressure It will allow us to better understand the sensitivity of coastal shelf ecosystem functioning to physical and biogeochemical perturbations the role of shelf seas in global carbon cycling and the resilience of Chinese and European shelf seas to ongoing and future changes in climate and anthropogenic activities

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