

Final



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

**MATHEMATICS P2
COMMON TEST
JUNE 2022
MARKING GUIDELINE**

MARKS: 150

TIME: 3 hours

NOTE:

- If a candidate answered a QUESTION TWICE, mark only the FIRST attempt.
- If a candidate crossed out an answer and did not redo it, mark the crossed-out answer.
- Consistent accuracy applies to ALL aspects of the marking guidelines.
- Assuming values/answer to solve a problem is unacceptable.

This marking guideline consists of 12 pages.

Memorandum Mathematics Paper 2 June 2015

Tae-Hee Jo, Zdravka Todorova



Memorandum Mathematics Paper 2 June 2015:

On Non-Topological Solutions of the A_{2n} and B_{2n} Chern-Simons System Weiwei Ao, Chang-Shou Lin, Juncheng Wei, 2016-01-25 Click here to view the abstract Introduction Proof of Theorem 1.1 in the case Proof of Theorem 1.1 in the case Appendix Bibliography **Drawing Futures** Bob Sheil, Frédéric Migayrou, Luke Pearson, Laura Allen, 2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture Despite numerous developments in technological manufacture and computational design that provide new grounds for designers the act of drawing still plays a central role as a vehicle for speculation There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation Drawing Futures will present a compendium of projects writings and interviews that critically reassess the act of drawing and where its future may lie Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments The book coincides with an international conference of the same name taking place at The Bartlett School of Architecture UCL in November 2016 Bringing together practitioners from many creative fields the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas **Applications of Operational Research and Mathematical Models in Management** Miltiadis Chalikias, 2020-11-17 This book Applications of Operational Research and Mathematical Models in Management includes all the papers published in the Mathematics Special Issue with the same title All the published papers are of high quality and were subjected to rigorous peer review Mathematics is included in the Science Citation Index Web of Science and its current Impact Factor is 1.747 The papers in this book deal with on R D performance models methods for ranking the perspectives and indicators of a balance scorecard robust optimization model applications integrated production and distribution problem solving demand functions supply chain games probabilistic optimization and profit research coordinated techniques for order preference robustness approaches in bank capital optimization and hybrid methods for tourism demand forecasting All the papers included contribute to the development of research **Dynamics Near the Subcritical Transition of the 3D Couette Flow II: Above Threshold Case** Jacob Bedrossian, Pierre Germain, Nader Masmoudi, 2022-08-31 View the abstract **NASA Technical Paper**, 2006 *Women in Science Now* Lisa M. P. Munoz, 2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Winner 2024 Choice Outstanding Academic Title Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all

This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists

Algebraic $\overline{\mathbb{Q}}$ -Groups as Abstract Groups Olivier Frécon, 2018-10-03 The author analyzes the abstract structure of algebraic groups over an algebraically closed field F of characteristic zero and a given connected affine algebraic Q group the main theorem describes all the affine algebraic Q groups such that the groups and are isomorphic as abstract groups In the same time it is shown that for any two connected algebraic Q groups and the elementary equivalence of the pure groups and implies that they are abstractly isomorphic In the final section the author applies his results to characterize the connected algebraic groups all of whose abstract automorphisms are standard when is either Q or of positive characteristic In characteristic zero a fairly general criterion is exhibited

Handbook of Numerical Simulation of In-Flight Icing Wagdi George Habashi, 2023-12-11 This Handbook of Numerical Simulation of In Flight Icing covers an array of methodologies and technologies on numerical simulation of in flight icing and its applications Comprised of contributions from internationally recognized experts from the Americas Asia and the EU this authoritative self contained reference includes best practices and specification data spanning the gamut of simulation tools available internationally that can be used to speed up the certification of aircraft and make them safer to fly into known icing The collection features nine sections concentrating on aircraft rotorcraft jet engines UAVs ice protection systems including hot air electrothermal and others sensors and probes CFD in the aid of testing flight simulators and certification process acceleration methods Incorporating perspectives from academia commercial government R D the book is ideal for a range of engineers and scientists concerned with in flight icing applications

Digital Technology and the Practices of Humanities Research Jennifer Edmond, 2020-01-30 How does technology impact research practices in the humanities How does digitisation shape scholarly identity How do we negotiate trust in the digital realm What is scholarship what forms can it take and how does it acquire authority This diverse set of essays demonstrate the importance of asking such questions bringing together established and emerging scholars from a variety of disciplines at a time when data is increasingly being incorporated as an input and output in humanities sources and publications Major themes addressed include the changing nature of scholarly publishing in a digital age the different kinds of gate keepers for scholarship and the difficulties of effectively assessing the impact of digital resources The essays bring theoretical and practical perspectives into conversation offering readers not only

comprehensive examinations of past and present discourse on digital scholarship but tightly focused case studies This timely volume illuminates the different forces underlying the shifting practices in humanities research today with especial focus on how humanists take ownership of and are empowered by technology in unexpected ways Digital Technology and the Practices of Humanities Research is essential reading for scholars students and general readers interested in the changing culture of research practices in the humanities and in the future of the digital humanities on the whole

Information Processing and Management of Uncertainty in Knowledge-Based Systems Marie-Jeanne Lesot,Susana Vieira,Marek Z. Reformat,João Paulo Carvalho,Anna Wilbik,Bernadette Bouchon-Meunier,Ronald R. Yager,2020-06-05 This three volume set CCIS 1237 1239 constitutes the proceedings of the 18th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 2020 in June 2020 The conference was scheduled to take place in Lisbon Portugal at University of Lisbon but due to COVID 19 pandemic it was held virtually The 173 papers were carefully reviewed and selected from 213 submissions The papers are organized in topical sections homage to Enrique Ruspini invited talks foundations and mathematics decision making preferences and votes optimization and uncertainty games real world applications knowledge processing and creation machine learning I machine learning II XAI image processing temporal data processing text analysis and processing fuzzy interval analysis theoretical and applied aspects of imprecise probabilities similarities in artificial intelligence belief function theory and its applications aggregation theory and practice aggregation pre aggregation functions and other generalizations of monotonicity aggregation aggregation of different data structures fuzzy methods in data mining and knowledge discovery computational intelligence for logistics and transportation problems fuzzy implication functions soft methods in statistics and data analysis image understanding and explainable AI fuzzy and generalized quantifier theory mathematical methods towards dealing with uncertainty in applied sciences statistical image processing and analysis with applications in neuroimaging interval uncertainty discrete models and computational intelligence current techniques to model process and describe time series mathematical fuzzy logic and graded reasoning models formal concept analysis rough sets general operators and related topics computational intelligence methods in information modelling representation and processing

Measure and Capacity of Wandering Domains in Gevrey Near-Integrable Exact Symplectic Systems Laurent Lazzarini,Jean-Pierre Marco,David Sauzin,2019-02-21 A wandering domain for a diffeomorphism of is an open connected set such that for all The authors endow with its usual exact symplectic structure An integrable diffeomorphism i e the time one map of a Hamiltonian which depends only on the action variables has no nonempty wandering domains The aim of this paper is to estimate the size measure and Gromov capacity of wandering domains in the case of an exact symplectic perturbation of in the analytic or Gevrey category Upper estimates are related to Nekhoroshev theory lower estimates are related to examples of Arnold diffusion This is a contribution to the quantitative Hamiltonian perturbation theory initiated in previous works on the optimality of long term stability estimates and diffusion

times the emphasis here is on discrete systems because this is the natural setting to study wandering domains

Advancing the Frontiers of Heterodox Economics Tae-Hee Jo,Zdravka Todorova,2015-07-30 This collection of essays honors the life and work of one of the most prominent and fervent heterodox economists Frederic S Lee who has been at the heart of the heterodox economics movements for the past three decades Authors in this book demonstrate that heterodox economic has transcended the criticism of mainstream economics and more importantly that constructive developments are in the making by way of cross communications among various heterodox economics traditions Frederic S Lee s contributions to heterodox economics are centered on three themes the making of a history and identity of heterodox economics heterodox microeconomics and the heterodox analysis of social provisioning Part I addresses the importance of history theory research methods and institutions in the making of the identity of heterodox economics as an alternative to mainstream economics Part II delves into heterodox microeconomic theories in particular investment pricing competition markets and market governance as foundations of heterodox macroeconomic analyses Part III expands the analysis of the capitalist social provisioning process with an emphasis on its subsystems and their relationships over historical time Part IV encapsulates the life and work of Frederic S Lee Throughout his intellectual life Frederic S Lee has shown to many that the development of heterodox economics is rendered possible by unselfish and ceaseless efforts to build both theory and institutions Essays in this book attest that establishing an alternative critical theory to the status quo is not only possible but also serviceable to the majority of the population **Scientific and Technical Aerospace Reports** ,1992 **Resources in Education** ,1981-10

CRREL Technical Publications, 1950-1975 Cold Regions Research and Engineering Laboratory (U.S.),1992

Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia

Karnaukhova, Oxana,Udovikina, Alexandra,Christiansen, Bryan,2018-06-01 The Commonwealth of Independent States CIS is a regional organization that formed during the breakup of the Soviet Union in 1991 It has few supranational powers but aims to be more than a purely symbolic organization nominally possessing coordinating powers in the realm of trade finance lawmaking and security As such it is vital to examine this region and its economic and geopolitical impacts on the world Economic and Geopolitical Perspectives of the Commonwealth of Independent States and Eurasia is a vital research publication that explores the importance and influence of the Commonwealth of Independent States and Eurasia in the twenty first century Highlighting a wide range of topics such as sovereign democracy economic integration and foreign policy this book is geared toward business managers economists business professionals entrepreneurs business analysts and researchers seeking current research on the effects of political organizations like the CIS on various regions *Shared Governance in Higher Education, Volume 1* Sharon F. Cramer,2017-03-30 Offers practical advice for achieving shared governance in higher education For those seeking a way to change opinions of shared governance from pointless and unlikely to possible and intriguing Shared Governance in Higher Education Volume 1 will trigger meaningful conversations by

offering valuable new perspectives Experienced governance members the contributors provide practical insights for everyone involved in academic governance and illuminate the subtle aspects of governance that make the difference between success or failure Each chapter takes a different view of governing within institutions of higher education and explores topics such as engaging all stakeholders including students in shared governance building on the benefits of a large complex system and bringing together pressing current needs with realistic strategic planning Several in depth descriptions of academic challenges and the many roles of governance in addressing them are thoughtfully explored The contributors look both deeply and broadly moving beyond platitudes The result is a volume that will appeal to those beginning their terms of service as governance members or transitioning into leadership positions as well as those looking for ways to assist others via governance symposia or conferences and that will enable readers to shape their involvement in shared governance in unique new ways

Advances and Applications of DSMT for Information Fusion (Collected Works. Volume 5) Florentin Smarandache, Jean Dezert, Albena Tchamova, 2023-12-27 This fifth volume on Advances and Applications of DSMT for Information Fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics and is available in open access The collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs.unm.edu/DSMTbook4.pdf or www.onera.fr/sites/default/files/297_2015_DSMT_Book4.pdf in international conferences seminars workshops and journals or they are new The contributions of each part of this volume are chronologically ordered First Part of this book presents some theoretical advances on DSMT dealing mainly with modified Proportional Conflict Redistribution Rules PCR of combination with degree of intersection coarsening techniques interval calculus for PCR thanks to set inversion via interval analysis SIVIA rough set classifiers canonical decomposition of dichotomous belief functions fast PCR fusion fast inter criteria analysis with PCR and improved PCR5 and PCR6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their Matlab codes Because more applications of DSMT have emerged in the past years since the apparition of the fourth book of DSMT in 2015 the second part of this volume is about selected applications of DSMT mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection GPS systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines SVM Silx Furtif RUST code library for information fusion including PCR rules and network for ship classification Finally the third part presents interesting contributions related to belief functions in general published or presented along the years since 2015 These contributions are related with decision making under uncertainty belief approximations probability transformations new distances between

belief functions non classical multi criteria decision making problems with belief functions generalization of Bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques mixing deep learning with belief functions as well We want to thank all the contributors of this fifth volume for their research works and their interests in the development of DSMT and the belief functions We are grateful as well to other colleagues for encouraging us to edit this fifth volume and for sharing with us several ideas and for their questions and comments on DSMT through the years We thank the International Society of Information Fusion www.isif.org for diffusing main research works related to information fusion including DSMT in the international fusion conferences series over the years Florentin Smarandache is grateful to The University of New Mexico U S A that many times partially sponsored him to attend international conferences workshops and seminars on Information Fusion Jean Dezert is grateful to the Department of Information Processing and Systems DTIS of the French Aerospace Lab Office National d Etudes et de Recherches Aérospatiales Palaiseau France for encouraging him to carry on this research and for its financial support Albena Tchamova is first of all grateful to Dr Jean Dezert for the opportunity to be involved during more than 20 years to follow and share his smart and beautiful visions and ideas in the development of the powerful Dezert Smarandache Theory for data fusion She is also grateful to the Institute of Information and Communication Technologies Bulgarian Academy of Sciences for sponsoring her to attend international conferences on Information Fusion

Does Torture Work? John W. Schiemann, 2015-10-01 When the Senate released its so called Torture Report in December 2014 the world would learn that for years the CIA had used unimaginably brutal methods to interrogate its prisoners often without yielding any useful or truthful information The agency had long and adamantly defended its use of torture staunchly arguing that it was not only just but necessary for the country's safety And even amid the revelations of the report questions abound about whether torture can be considered a justifiable tool of national security Is interrogational torture an effective method of extracting information How good does the information extracted need to be for the torture to be considered successful How often or how vigorously must torture be used to achieve valuable information It may be the case that interrogational torture can never be justified under any circumstances but according to John Schiemann if it is to be justified at all it must be effective According to more than one national poll most Americans do believe that torture can work and that it can be justified under certain circumstances But if the information that torturers extract is bad then the method amounts to nothing more than pure sadism So how can we solve the dilemma over whether to torture or not to torture In this book John Schiemann takes a truly unique approach to the question of torture game theory Thinking of torture as a game played between an interrogator and a detainee the book walks the reader through the logic of interrogational torture comparing the outcomes to the claims made by torture proponents The book draws on a wide variety of sources ranging from records of the Inquisition to secret CIA memos to trace this logic

illustrating each outcome of the model with a narrative from the real world of interrogational torture Does Torture Work is an absorbing and provocative take on one of the most discussed human rights and security dilemmas of our time *How Data Happened: A History from the Age of Reason to the Age of Algorithms* Chris Wiggins, Matthew L. Jones, 2023-03-21 Fascinating Jill Lepore The New Yorker A sweeping history of data and its technical political and ethical impact on our world From facial recognition capable of checking people into flights or identifying undocumented residents to automated decision systems that inform who gets loans and who receives bail each of us moves through a world determined by data empowered algorithms But these technologies didn't just appear they are part of a history that goes back centuries from the census enshrined in the US Constitution to the birth of eugenics in Victorian Britain to the development of Google search Expanding on the popular course they created at Columbia University Chris Wiggins and Matthew L. Jones illuminate the ways in which data has long been used as a tool and a weapon in arguing for what is true as well as a means of rearranging or defending power They explore how data was created and curated as well as how new mathematical and computational techniques developed to contend with that data serve to shape people ideas society military operations and economies Although technology and mathematics are at its heart the story of data ultimately concerns an unstable game among states corporations and people How were new technical and scientific capabilities developed who supported advanced or funded these capabilities or transitions and how did they change who could do what from what and to whom Wiggins and Jones focus on these questions as they trace data's historical arc and look to the future By understanding the trajectory of data where it has been and where it might yet go Wiggins and Jones argue that we can understand how to bend it to ends that we collectively choose with intentionality and purpose

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