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SENIOR CERTIFICATE EXAMINATIONS/
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MATHEMATICS P1

MAY/JUNE 2023

MARKS: 150

TIME: 3 hours

The question paper consists of 9 pages and 1 information sheet.



FULL MEMO

GRADE 12

MATHEMATICS

PAPER 1

NSC JUNE 2023



Maths Memo June 2013

Rosina Ehmann



Maths Memo June 2013:

Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in *Caught in the Act* draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers *A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials* Florica C. Cîrstea, 2014-01-08 In particular for $b = 1$ and 0 we find a sharp condition on h such that the origin is a removable singularity for all non negative solutions of $\Delta u = h$ thus addressing an open question of Vázquez and Vron *Singularity Theory for Non-Twist KAM Tori* A. González-Enríquez, A. Haro, R. de la Llave, 2014-01-08 In this monograph the authors introduce a new method to study bifurcations of KAM tori with fixed Diophantine frequency in parameter dependent Hamiltonian systems It is based on Singularity Theory of critical points of a real valued function which the authors call the potential The potential is constructed in such a way that nondegenerate critical points of the potential correspond to twist invariant tori i.e. with nondegenerate torsion and degenerate critical points of the potential correspond to non twist invariant tori Hence bifurcating points correspond to non twist tori **An Excursion Through Discrete Differential Geometry** American Mathematical Society. Short Course, Discrete Differential Geometry, 2020-09-02 Discrete Differential Geometry DDG is an emerging discipline at the boundary between mathematics and computer science It aims to translate concepts from classical differential geometry into a language that is purely finite and discrete and can hence be used by algorithms to reason about geometric data In contrast to standard numerical approximation the central philosophy of DDG is to faithfully and exactly preserve key invariants of geometric objects at the discrete level This process of translation from smooth to discrete helps to both illuminate the fundamental meaning behind geometric ideas and provide useful algorithmic guarantees This volume is based on lectures delivered at the 2018 AMS Short Course Discrete Differential Geometry held January 8-9 2018 in San Diego California The papers in this volume illustrate the principles of DDG via several recent topics discrete nets discrete differential operators discrete mappings discrete conformal geometry and discrete optimal transport **Global Flood Hazard** Guy J-P. Schumann, Paul D. Bates, Heiko Apel, Giuseppe T. Aronica, 2018-06-05 Global Flood Hazard Subject Category Winner PROSE Awards 2019 Earth Science Selected from more than 500 entries demonstrating exceptional scholarship and making a significant contribution to the field of study Flooding is a costly natural disaster in terms of damage to land

property and infrastructure This volume describes the latest tools and technologies for modeling mapping and predicting large scale flood risk It also presents readers with a range of remote sensing data sets successfully used for predicting and mapping floods at different scales These resources can enable policymakers public planners and developers to plan for and respond to flooding with greater accuracy and effectiveness Describes the latest large scale modeling approaches including hydrological models 2 D flood inundation models and global flood forecasting models Showcases new tools and technologies such as Aqueduct a new web based tool used for global assessment and projection of future flood risk under climate change scenarios Features case studies describing best practice uses of modeling techniques tools and technologies Global Flood Hazard is an indispensable resource for researchers consultants practitioners and policy makers dealing with flood risk flood disaster response flood management and flood mitigation

Weighted Bergman Spaces Induced by Rapidly Increasing Weights Jose Angel Pelaez,Jouni Rattya,2014-01-08 This monograph is devoted to the study of the weighted Bergman space $A_{p,\omega}$ of the unit disc \mathbb{D} that is induced by a radial continuous weight ω satisfying $\lim_{r \rightarrow 1} \frac{1}{r} \int_r^1 \omega(s) ds < \infty$ Every such $A_{p,\omega}$ lies between the Hardy space H^p and every classical weighted Bergman space $A_{p,\alpha}$ Even if it is well known that H^p is the limit of $A_{p,\alpha}$ as $\alpha \rightarrow 1$ in many respects it is shown that $A_{p,\omega}$ lies closer to H^p than any $A_{p,\alpha}$ and that several finer function theoretic properties of $A_{p,\alpha}$ do not carry over to $A_{p,\omega}$

On the Theory of Weak Turbulence for the Nonlinear Schrodinger Equation M. Escobedo,J. J. L. Velázquez,2015-10-27 The authors study the Cauchy problem for a kinetic equation arising in the weak turbulence theory for the cubic nonlinear Schrödinger equation They define suitable concepts of weak and mild solutions and prove local and global well posedness results Several qualitative properties of the solutions including long time asymptotics blow up results and condensation in finite time are obtained The authors also prove the existence of a family of solutions that exhibit pulsating behavior

Cognitive Communication and Cooperative HetNet Coexistence Maria-Gabriella Di Benedetto,Faouzi Bader,2014-01-16 This book written by experts from universities and major industrial research laboratories is devoted to the very hot topic of cognitive radio and networking for cooperative coexistence of heterogeneous wireless networks Selected highly relevant advanced research is presented on spectrum sensing and progress toward the realization of accurate radio environment mapping biomimetic learning for self organizing networks security threats with a special focus on primary user emulation attack and cognition as a tool for green next generation networks The research activities covered include work undertaken within the framework of the European COST Action IC0902 which is geared towards the definition of a European platform for cognitive radio and networks Communications engineers R D engineers researchers and students will all benefit from this complete reference on recent advances in wireless communications and the design and implementation of cognitive radio systems and networks

Microfilm Index United States. Office of Scientific Research and Development. National Defense Research Committee,1946 This volume is an index of the technical laboratory and field reports and other reference

material which appears in the bibliographies for the Summary Technical Report of NDRC microfilmed Memorandum -, 1963

Access to Scientific Research David J. Brown, 2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future

Lie Algebras, Lie Superalgebras, Vertex Algebras and Related Topics Kailash C. Misra, Daniel K. Nakano, Brian J. Parshall, 2016-06-28 This book contains the proceedings of the 2012 2014 Southeastern Lie Theory Workshop Series held at North Carolina State University in April 2012 at College of Charleston in December 2012 at Louisiana State University in May 2013 and at University of Georgia in May 2014 Some of the articles by experts in the field survey recent developments while others include new results in representations of Lie algebras and quantum groups vertex operator algebras and Lie superalgebras

IGNOU BCA Communication Skills Previous Year Unsolved Papers MCS 015 Manish Soni, 2024-11-13 Communication skills are essential for success in both academic and professional settings They involve a range of competencies such as expressing ideas clearly active listening public speaking group discussions and the effective use of verbal and non verbal communication Understanding the significance of these skills in today's world the Indira Gandhi National Open University IGNOU has included Communication Skills as a crucial part of the BCA curriculum helping students enhance their overall personality and professional readiness IGNOU BCA Communication Skills Previous Year Unsolved Papers MCS 015 is a thoughtfully curated collection of unsolved question papers from previous IGNOU examinations This book is designed to help students become familiar with exam patterns assess their preparation level and develop a deeper understanding of communication concepts Covering key areas like interpersonal communication conflict resolution and presentation skills the book encourages active learning and critical thinking We hope this compilation proves to be a valuable resource for exam preparation and a practical guide to mastering effective communication

Adelic Divisors on Arithmetic Varieties Atsushi Moriwaki, 2016-06-21 In this article the author generalizes several fundamental results for arithmetic divisors such as the continuity of the volume function the generalized Hodge index theorem Fujita's approximation theorem for arithmetic divisors Zariski decompositions for arithmetic divisors on arithmetic surfaces and a special case of Dirichlet's unit theorem on arithmetic varieties to the case of the adelic arithmetic divisors

Research Memorandum, 1947

Memristors Alex James, 2020-05-27 This Edited Volume Memristors Circuits and Applications of Memristor Devices is a collection of reviewed and relevant research chapters offering a comprehensive overview of recent developments in the field of Engineering The book comprises single chapters authored by various researchers and edited by an expert active in the physical sciences engineering and technology research areas All chapters are complete in itself but

united under a common research study topic This publication aims at providing a thorough overview of the latest research efforts by international authors on physical sciences engineering and technology and open new possible research paths for further novel developments Elements of Classical and Geometric Optimization Debasish Roy,G Visweswara

Rao,2024-01-25 This comprehensive textbook covers both classical and geometric aspects of optimization using methods deterministic and stochastic in a single volume and in a language accessible to non mathematicians It will help serve as an ideal study material for senior undergraduate and graduate students in the fields of civil mechanical aerospace electrical electronics and communication engineering The book includes Derivative based Methods of Optimization Direct Search Methods of Optimization Basics of Riemannian Differential Geometry Geometric Methods of Optimization using Riemannian Langevin Dynamics Stochastic Analysis on Manifolds and Geometric Optimization Methods This textbook comprehensively treats both classical and geometric optimization methods including deterministic and stochastic Monte Carlo schemes It offers an extensive coverage of important topics including derivative based methods penalty function methods method of gradient projection evolutionary methods geometric search using Riemannian Langevin dynamics and stochastic dynamics on manifolds The textbook is accompanied by online resources including MATLAB codes which are uploaded on our website The textbook is primarily written for senior undergraduate and graduate students in all applied science and engineering disciplines and can be used as a main or supplementary text for courses on classical and geometric optimization *The*

Problem of College Readiness William G. Tierney,Julia C. Duncheon,2015-03-30 Though more students are entering college many drop out especially those who are low income and or of color To address this problem educational stakeholders have focused on the concept of college readiness or the preparation a student needs to succeed in college However what it means to be college ready and how to help more students become ready are questions without clear answers By way of historical and contemporary analyses this book uses California as a case study to demonstrate how the state has endeavored to make postsecondary opportunity accessible for all students The contributors also explore the challenges that remain and address what states and schools can do to improve college readiness and completion **Dark Mirror** Barton Gellman,2020-05-19

Engrossing Gellman is a thorough exacting reporter a marvelous narrator for this particular story as he nimbly guides us through complex technical arcana and some stubborn ethical questions Dark Mirror would be simply pleasurable to read if the story it told didn't also happen to be frighteningly real Jennifer Szalai The New York Times From the three time Pulitzer Prize winner and author of the New York Times bestseller Angler the definitive master narrative of Edward Snowden and the modern surveillance state based on unique access to Snowden and groundbreaking reportage around the world Edward Snowden touched off a global debate in 2013 when he gave Barton Gellman Laura Poitras and Glenn Greenwald each a vast and explosive archive of highly classified files revealing the extent of the American government's access to our every communication They shared the Pulitzer Prize that year for public service For Gellman who never stopped reporting that was

only the beginning He jumped off from what Snowden gave him to track the reach and methodology of the U S surveillance state and bring it to light with astonishing new clarity Along the way he interrogated Snowden s own history and found important ways in which myth and reality do not line up Gellman treats Snowden with respect but this is no hagiographic account and Dark Mirror sets the record straight in ways that are both fascinating and important Dark Mirror is the story that Gellman could not tell before a gripping inside narrative of investigative reporting as it happened and a deep dive into the machinery of the surveillance state Gellman recounts the puzzles dilemmas and tumultuous events behind the scenes of his work in top secret intelligence facilities in Moscow hotel rooms in huddles with Post lawyers and editors in Silicon Valley executive suites and in encrypted messages from anonymous accounts Within the book is a compelling portrait of national security journalism under pressure from legal threats government investigations and foreign intelligence agencies intent on stealing Gellman s files Throughout Dark Mirror Gellman wages an escalating battle against unknown adversaries who force him to mimic their tradecraft in self defense With the vivid and insightful style that is the author s trademark Dark Mirror is a true life spy tale about the surveillance industrial revolution and its discontents Along the way with the benefit of fresh reporting it tells the full story of a government leak unrivaled in drama since All the President s Men **Public Papers of the Presidents of the United States** United States. President,2018 Containing the public messages speeches and statements of the President 1956 1992

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