MATH 436 Final Exam Solutions (Spring 2008)

1. (a) (5 points) State the Real Spectral Theorem.

   Solution. Let V be a real inner-product space, and $T \in \mathcal{L}(V)$. There is a an orthonormal basis consisting of eigenvectors of T if and only if T is self-adjoint.

   (b) (5 points) Let V be a real inner-product space and let $T \in \mathcal{L}(V)$. Is T diagonalizable if it is a normal operator? Is T diagonalizable if it is an isometry? Explain.

   Solution. The answer to both questions is NO. An isometry is normal, so it is enough to give an example of an isometry which is not diagonalizable. Let $V = \mathbb{R}^2$ and T be the rotation by an angle $0 < \theta < \pi$. In terms of matrices this is

   $$\begin{pmatrix} \cos\theta & -\sin\theta \\ \sin\theta & \cos\theta \end{pmatrix}$$

   Then T is an isometry which has no eigenvectors.

2. (10 points) Suppose V is an inner-product space (real or complex). Let $T \in \mathcal{L}(V)$. Prove that the eigenvalues of T^*T are real non-negative numbers.

   Solution. Let $x \neq 0$ be an eigenvector of T^*T with eigenvalue λ. Then

   $$\lambda(x, x) = (\lambda x, x) = (T^*Tx, x) = (Tx, Tx).$$

   Hence $\lambda = (Tx, Tx)/(x, x)$. Since (x, x) is a real positive number and (Tx, Tx) is a real non-negative number, we conclude that λ is a real non-negative number.

3. (10 points) Let V be the subspace of $\mathbb{R}^4$ spanned by

   $$(3, 2, 0, 0), \quad (-1, 1, -3, 0), \quad (5, 3, 1, 0)$$

   Find a basis of V.

   Solution. Note that $(-1, 1, -3, 0) + 5(5, 3, 1, 0) = (24, 16, 2, 0) = 8(3, 2, 0, 0)$, so $\dim(V) < 3$. On the other hand, since $(3, 2, 0, 0)$ and $(-1, 1, -3, 0)$ are clearly linearly independent, $\dim(V) \geq 2$. Therefore, $\dim(V) = 2$ and $\{(3, 2, 0, 0), (-1, 1, -3, 0)\}$ form a basis.

4. (10 points) Let A be a complex matrix with characteristic polynomial $x(x+1)(x - 1)^3$. Describe the possible Jordan forms of A.

   Solution. The number of Jordan forms is equal to the number of decompositions of 3 into non-increasing sums of positive integers. There are three of these $3 = 3, 3 = 2 + 1$, and $3 = 1 + 1 + 1$. The corresponding matrices are

   $$\begin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 1 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \quad \begin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}, \quad \begin{pmatrix} 0 & 0 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{pmatrix}.$$

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Math 436

Michael Brown

Math 436:

Mathematics 436 - Finely Explained Rob Shutler,2004 This book deals with the geometric aspects of the Quebec mathematics course numbered 436 The history of this course depicts a difficult and confusing path with results measured in failures and frustration The course is meant for students expecting to go on to studies in the technical and scientific fields Unfortunately there has been a dearth of material to explain the course The reality is that it has been a source of confusion for administrators teachers parents and most unfortunately students Rob Shutler has attempted to leave the fighting and finger pointing behind and concentrate on explaining the material The book follows a traditional path and provides painstaking detail to explain each topic and provide a plethora of examples The underlying feature of this book is its secure connection to the provincial exam that provides the final and ultimately deciding evaluation for students The book could be used as a textbook for classroom use or as a stand alone resource for a committed besieged student It is an excellent foundation resource for any mathematics teacher **Resources in Education** ,2000-04 **Math 436 Course Material** Martin Legare, **A Guide to Quantum Groups** Vyjayanthi Chari,Andrew N. Pressley,1995-07-27 Since they first arose in the 1970s and early 1980s quantum groups have proved to be of great interest to mathematicians and theoretical physicists The theory of quantum groups is now well established as a fascinating chapter of representation theory and has thrown new light on many different topics notably low dimensional topology and conformal field theory The goal of this book is to give a comprehensive view of quantum groups and their applications The authors build on a self contained account of the foundations of the subject and go on to treat the more advanced aspects concisely and with detailed references to the literature Thus this book can serve both as an introduction for the newcomer and as a guide for the more experienced reader All who have an interest in the subject will welcome this unique treatment of quantum groups Algebraic Groups and Their Generalizations: Quantum and Infinite-Dimensional Methods William Joseph Haboush,1994 Proceedings of a research institute held at Pennsylvania State University July 1991 focusing on quantum and infinite dimensional methods of algebraic groups Topics include perverse sheaves finite Chevalley groups the general theory of algebraic groups representations invariant theory general The History of Combinatorial Group Theory B. Chandler,W. Magnus,2012-12-06 One of the pervasive phenomena in the history of science is the development of independent disciplines from the solution or attempted solutions of problems in other areas of science In the Twentieth Century the creation of specialties witqin the sciences has accelerated to the point where a large number of scientists in any major branch of science cannot understand the work of a colleague in another subdiscipline of his own science Despite this fragmentation the development of techniques or solutions of problems in one area very often contribute fundamentally to solutions of problems in a seemingly unrelated field Therefore an examination of this phenomenon of the formation of independent disciplines within the sciences would contrib ute to the understanding of their evolution in modern times We believe that in this context the history of combinatorial group theory in

the late Nineteenth Century and the Twentieth Century can be used effectively as a case study It is a reasonably well defined independent specialty and yet it is closely related to other mathematical disciplines The fact that combinatorial group theory has so far not been influenced by the practical needs of science and technology makes it possible for us to use combinatorial group theory to exhibit the role of the intellectual aspects of the development of mathematics in a clearcut manner There are other features of combinatorial group theory which appear to make it a reasona ble choice as the object of a historical study

Schur Algebras and Representation Theory Stuart Martin,1993 The Schur algebra is an algebraic system providing a link between the representation theory of the symmetric and general linear groups both finite and infinite In the text Dr Martin gives a full self contained account of this algebra and these links covering both the basic theory of Schur algebras and related areas He discusses the usual representation theoretic topics such as constructions of irreducible modules the blocks containing them their modular characters and the problem of computing decomposition numbers moreover deeper properties such as the quasi hereditariness of the Schur algebra are discussed The opportunity is taken to give an account of quantum versions of Schur algebras and their relations with certain q deformations of the coordinate rings of the general linear group The approach is combinatorial where possible making the presentation accessible to graduate students This is the first comprehensive text in this important and active area of research it will be of interest to all research workers in representation theory   Cyclic Homology Jean-Louis Loday,2013-03-09 From the reviews This is a very interesting book containing material for a comprehensive study of the cyclid homological theory of algebras cyclic sets and S1 spaces Lie algebras and algebraic K theory and an introduction to Connes work and recent results on the Novikov conjecture The book requires a knowledge of homological algebra and Lie algebra theory as well as basic technics coming from algebraic topology The bibliographic comments at the end of each chapter offer good suggestions for further reading and research The book can be strongly recommended to anybody interested in noncommutative geometry contemporary algebraic topology and related topics European Mathematical Society Newsletter In this second edition the authors have added a chapter 13 on MacLane co homology   **Numerical Methods for Ordinary Differential Equations** J. C. Butcher,2016-08-05 A new edition of this classic work comprehensively revised to present exciting new developments in this important subject The study of numerical methods for solving ordinary differential equations is constantly developing and regenerating and this third edition of a popular classic volume written by one of the world s leading experts in the field presents an account of the subject which reflects both its historical and well established place in computational science and its vital role as a cornerstone of modern applied mathematics In addition to serving as a broad and comprehensive study of numerical methods for initial value problems this book contains a special emphasis on Runge Kutta methods by the mathematician who transformed the subject into its modern form dating from his classic 1963 and 1972 papers A second feature is general linear methods which have now matured and grown from being a framework for a unified theory of a wide range of diverse numerical schemes to a

source of new and practical algorithms in their own right As the founder of general linear method research John Butcher has been a leading contributor to its development his special role is reflected in the text The book is written in the lucid style characteristic of the author and combines enlightening explanations with rigorous and precise analysis In addition to these anticipated features the book breaks new ground by including the latest results on the highly efficient G symplectic methods which compete strongly with the well known symplectic Runge Kutta methods for long term integration of conservative mechanical systems This third edition of Numerical Methods for Ordinary Differential Equations will serve as a key text for senior undergraduate and graduate courses in numerical analysis and is an essential resource for research workers in applied mathematics physics and engineering   **Quantum Mechanics on Phase Space** Franklin E. Schroeck Jr.,2013-06-29 In this monograph we shall present a new mathematical formulation of quantum theory clarify a number of discrepancies within the prior formulation of quantum theory give new applications to experiments in physics and extend the realm of application of quantum theory well beyond physics Here we motivate this new formulation and sketch how it developed Since the publication of Dirac s famous book on quantum mechanics Dirac 1930 and von Neumann s classic text on the mathematical foundations of quantum mechanics two years later von Neumann 1932 there have appeared a number of lines of development the intent of each being to enrich quantum theory by extra polating or even modifying the original basic structure These lines of development have seemed to go in different directions the major directions of which are identified here First is the introduction of group theoretical methods Weyl 1928 Wigner 1931 with the natural extension to coherent state theory Klauder and Sudarshan 1968 Peremolov 1971 The call for an axiomatic approach to physics Hilbert 1900 Sixth Problem led to the development of quantum logic Mackey 1963 Jauch 1968 Varadarajan 1968 1970 Piron 1976 Beltrametti Davies 1976 with its application to quantum communication theory Helstrom 1976 Holevo 1982 and to the development of the C approach Emch 1972 An approach through stochastic differential equations stochastic mechanics was developed Nelson 1964 1966 1967   *Poncelet Porisms and Beyond* Vladimir Dragović,Milena Radnović,2011-05-02 The goal of the book is to present in a complete and comprehensive way areas of current research interlacing around the Poncelet porism dynamics of integrable billiards algebraic geometry of hyperelliptic Jacobians and classical projective geometry of pencils of quadrics The most important results and ideas classical as well as modern connected to the Poncelet theorem are presented together with a historical overview analyzing the classical ideas and their natural generalizations Special attention is paid to the realization of the Griffiths and Harris programme about Poncelet type problems and addition theorems This programme formulated three decades ago is aimed to understanding the higher dimensional analogues of Poncelet problems and the realization of the synthetic approach of higher genus addition theorems   Self-Dual Codes and Invariant Theory Gabriele Nebe,Eric M. Rains,Neil J. A. Sloane,2006-05-20 One of the most remarkable and beautiful theorems in coding theory is Gleason s 1970 theorem about the weight enumerators of self dual codes and their connections with invariant theory In the

past 35 years there have been hundreds of papers written about generalizations and applications of this theorem to different types of codes This self contained book develops a new theory which is powerful enough to include all the earlier generalizations It is also in part an encyclopedia that gives a very extensive list of the different types of self dual codes and their properties including tables of the best codes that are presently known Besides self dual codes the book also discusses two closely related subjects lattices and modular forms and quantum error correcting codes This book written by the leading experts in the subject has no equivalent in the literature and will be of great interest to mathematicians communication theorists computer scientists and physicists **Counting Your Way Through 1-2-3** Cathie Hilterbran Cooper,1997 A comprehensive annotated guide to 663 counting books divided into ten subject areas Each section includes a description of the subject area an annotated bibliography of related books and a number of activities that can be used in connection with counting and math books Reproducible activity pages are included in each section *Representations of Algebraic Groups* Jens Carsten Jantzen,2003-01-01 Now back in print by the AMS this is a significantly revised edition of a book originally published in 1987 by Academic Press This book gives the reader an introduction to the theory of algebraic representations of reductive algebraic groups To develop appropriate techniques the first part of the book is an introduction to the general theory of representations of algebraic group schemes Here the author describes important basic notions induction functors cohomology quotients Frobenius kernels and reduction mod p among others The second part of the book is devoted to the representation theory of reductive algebraic groups It includes topics such as the description of simple modules vanishing theorems the Borel Bott Weil theorem and Weyl s character formula andSchubert schemes and line bundles on them For this revised edition the author added nearly 150 pages of new material describing some later developments among them Schur algebras Lusztig s conjecture and Kazhdan Lusztig polynomials tilting modules and representations of quantum groups He also made major revisions to parts of the old text Jantzen s book continues to be the ultimate source of information on representations of algebraic groups in finite characteristics It is suitable forgraduate students and research mathematicians interested in algebraic groups and their representations *Lectures on Probability Theory and Statistics* Roland Dobrushin,Piet Groeneboom,Michel Ledoux,2006-11-13 *Spaces of Kleinian Groups* Yair N. Minsky,Makoto Sakuma,Caroline Series,2006-06-19 The subject of Kleinian groups and hyperbolic 3 manifolds is currently undergoing explosively fast development the last few years having seen the resolution of many longstanding conjectures This volume contains important expositions and original work by some of the main contributors on topics such as topology and geometry of 3 manifolds curve complexes classical Ahlfors Bers theory computer explorations and projective structures Researchers in these and related areas will find much of interest here **Proceedings of the London Mathematical Society** London Mathematical Society,1901 Papers presented to J E Littlewood on his 80th birthday issued as 3d ser v 14 A 1965 **Guide to Tables in Mathematical Statistics** Joseph Arthur Greenwood,H. O. Hartley,2017-03-14 This book is exclusively devoted

to the tables of mathematical statistics It catalogues a large selection of tables in the field of mathematical statistics with a small selection of mathematical tables lying outside statistics but often used with statistical tables Originally published in 1962 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 **Classical and Quantum Models and Arithmetic Problems** Chudnovsky,2018-10-08 Here is an unsurpassed resource important accounts of a variety of dynamic systems topicsrelated to number theory Twelve distinguished mathematicians present a rare complete analyticsolution of a geodesic quantum problem on a negatively curved surface and explicitdetermination of modular function growth near a real point applications of number theoryto dynamical systems and applications of mathematical physics to number theory tributes to the often unheralded pioneers in the field an examination of completely integrableand exactly solvable physical models and much more Classical and Quantum Models and Arithmetic Problems is certainly a major source of information advancing the studies of number theorists algebraists and mathematical physicistsinterested in complex mathematical properties of quantum field theory statistical mechanics and dynamic systems Moreover the volume is a superior source of supplementary readingfor graduate level courses in dynamic systems and application of number theory *Third Symposium Proceedings. New Ways of Teaching and Learning* Janina Morska,Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 10 2024 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide

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