

DE GRUYTER

GRADUATE

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ALGEBRA AND NUMBER THEORY

A SELECTION OF HIGHLIGHTS

2ND EDITION

First Course In Algebra And Number Theory

S. Lang



First Course In Algebra And Number Theory:

First Course in Algebra and Number Theory Edwin Weiss, 1971

A First Course in Noncommutative Rings

Tsit-Yuen Lam, 2001-06-21 Aimed at the novice rather than the connoisseur and stressing the role of examples and motivation this text is suitable not only for use in a graduate course but also for self study in the subject by interested graduate students More than 400 exercises testing the understanding of the general theory in the text are included in this new edition

A First Course in Modular Forms Fred Diamond, Jerry Shurman, 2006-03-30 This book introduces the theory of modular forms with an eye toward the Modularity Theorem All rational elliptic curves arise from modular forms The topics covered include elliptic curves as complex tori and as algebraic curves modular curves as Riemann surfaces and as algebraic curves Hecke operators and Atkin Lehner theory Hecke eigenforms and their arithmetic properties the Jacobians of modular curves and the Abelian varieties associated to Hecke eigenforms elliptic and modular curves modulo p and the Eichler Shimura Relation the Galois representations associated to elliptic curves and to Hecke eigenforms As it presents these ideas the book states the Modularity Theorem in various forms relating them to each other and touching on their applications to number theory *A First Course in Modular Forms* is written for beginning graduate students and advanced undergraduates It does not require background in algebraic number theory or algebraic geometry and it contains exercises throughout Fred Diamond received his Ph D from Princeton University in 1988 under the direction of Andrew Wiles and now teaches at King's College London Jerry Shurman received his Ph D from Princeton University in 1988 under the direction of Goro Shimura and now teaches at Reed College

Algebraic Groups and Class Fields Jean-Pierre Serre, 2012-12-06 Translation of the French Edition

Gröbner Bases Thomas Becker, Volker Weispfenning, 2012-12-06 The origins of the mathematics in this book date back more than two thousand years as can be seen from the fact that one of the most important algorithms presented here bears the name of the Greek mathematician Euclid The word algorithm as well as the key word algebra in the title of this book come from the name and the work of the ninth century scientist Mohammed ibn Musa al Khwarizmi who was born in what is now Uzbekistan and worked in Baghdad at the court of Harun al Rashid's son The word algorithm is actually a westernization of al Khwarizmi's name while algebra derives from al jabr a term that appears in the title of his book *Kitab al jabr wa l muqabala* where he discusses symbolic methods for the solution of equations This close connection between algebra and algorithms lasted roughly up to the beginning of this century until then the primary goal of algebra was the design of constructive methods for solving equations by means of symbolic transformations During the second half of the nineteenth century a new line of thought began to enter algebra from the realm of geometry where it had been successful since Euclid's time namely the axiomatic method

An Introduction to Markov Processes Daniel W. Stroock, 2005-10-14

To some extent it would be accurate to summarize the contents of this book as an intolerably protracted description of what happens when either one raises a transition probability matrix P i.e. all entries P_{ij} are non-negative and each row of P sums to 1 to higher

and higher powers or one exponentiates $R^P I$ where R is a diagonal matrix with non negative entries Indeed when it comes right down to it that is all that is done in this book However I and others of my ilk would take offense at such a dismissive characterization of the theory of Markov chains and processes with values in a countable state space and a primary goal of mine in writing this book was to convince its readers that our offense would be warranted The reason why I and others of my persuasion refuse to consider the theory here as no more than a subset of matrix theory is that to do so is to ignore the pervasive role that probability plays throughout Namely probability theory provides a model which both motivates and provides a context for what we are doing with these matrices To wit even the term transition probability matrix lends meaning to an otherwise rather peculiar set of hypotheses to make about a matrix

Topology and Geometry Glen E. Bredon, 2013-03-09 The golden age of mathematics that was not the age of Euclid it is ours C J KEYSER This time of writing is the hundredth anniversary of the publication 1892 of Poincare's first note on topology which arguably marks the beginning of the subject of algebraic or combinatorial topology There was earlier scattered work by Euler Listing who coined the word topology Mobius and his band Riemann Klein and Betti Indeed even as early as 1679 Leibniz indicated the desirability of creating a geometry of the topological type The establishment of topology or analysis situs as it was often called at the time as a coherent theory however belongs to Poincare Curiously the beginning of general topology also called point set topology dates fourteen years later when Frechet published the first abstract treatment of the subject in 1906 Since the beginning of time or at least the era of Archimedes smooth manifolds curves surfaces mechanical configurations the universe have been a central focus in mathematics They have always been at the core of interest in topology After the seminal work of Milnor Smale and many others in the last half of this century the topological aspects of smooth manifolds as distinct from the differential geometric aspects became a subject in its own right

Riemannian Geometry Peter Petersen, 2013-06-29 This book is meant to be an introduction to Riemannian geometry The reader is assumed to have some knowledge of standard manifold theory including basic theory of tensors forms and Lie groups At times we shall also assume familiarity with algebraic topology and de Rham cohomology Specifically we recommend that the reader is familiar with texts like 14 or 76 vol 1 For the readers who have only learned something like the first two chapters of 65 we have an appendix which covers Stokes theorem Cech cohomology and de Rham cohomology The reader should also have a nodding acquaintance with ordinary differential equations For this a text like 59 is more than sufficient Most of the material usually taught in basic Riemannian geometry as well as several more advanced topics is presented in this text Many of the theorems from Chapters 7 to 11 appear for the first time in textbook form This is particularly surprising as we have included essentially only the material students of Riemannian geometry must know The approach we have taken deviates in some ways from the standard path First and foremost we do not discuss variational calculus which is usually the sine qua non of the subject Instead we have taken a more elementary approach that simply uses standard calculus together with some techniques from differential

equations **Lectures on Polytopes** Günter M. Ziegler, 2012-05-03 Based on a graduate course at the Technische Universität Berlin these lectures present a wealth of material on the modern theory of convex polytopes The straightforward exposition features many illustrations and complete proofs for most theorems With only linear algebra as a prerequisite it takes the reader quickly from the basics to topics of recent research The lectures introduce basic facts about polytopes with an emphasis on methods that yield the results discuss important examples and elegant constructions and show the excitement of current work in the field They will provide interesting and enjoyable reading for researchers as well as students

Foundations of Real and Abstract Analysis Douglas S. Bridges, 2006-04-06 A complete course on metric normed and Hilbert spaces including many results and exercises seldom found in texts on analysis at this level The author covers an unusually wide range of material in a clear and concise format including elementary real analysis Lebesgue integration on \mathbb{R} and an introduction to functional analysis The book begins with a fast paced course on real analysis followed by an introduction to the Lebesgue integral This provides a reference for later chapters as well as a preparation for students with only the typical sequence of undergraduate calculus courses as prerequisites Other features include a chapter introducing functional analysis the Hahn Banach theorem and duality separation theorems the Baire Category Theorem the Open Mapping Theorem and their consequences and unusual applications Of special interest are the 750 exercises many with guidelines for their solutions applications and extensions of the main propositions and theorems pointers to new branches of the subject and difficult challenges for the very best students **An Invitation to C^* -Algebras** W. Arveson, 2012-12-06 This book gives an introduction to C^* algebras and their representations on Hilbert spaces We have tried to present only what we believe are the most basic ideas as simply and concretely as we could So whenever it is convenient and it usually is Hilbert spaces become separable and C^* algebras become GCR This practice probably creates an impression that nothing of value is known about other C^* algebras Of course that is not true But insofar as representations are concerned we can point to the empirical fact that to this day no one has given a concrete parametric description of even the irreducible representations of any C^* algebra which is not GCR Indeed there is metamathematical evidence which strongly suggests that no one ever will see the discussion at the end of Section 3.4 Occasionally when the idea behind the proof of a general theorem is exposed very clearly in a special case we prove only the special case and relegate generalizations to the exercises In effect we have systematically eschewed the Bourbaki tradition We have also tried to take into account the interests of a variety of readers For example the multiplicity theory for normal operators is contained in Sections 2.1 and 2.2 it would be desirable but not necessary to include Section 1.1 as well whereas someone interested in Borel structures could read Chapter 3 separately Chapter I could be used as a bare bones introduction to C^* algebras Sections 2 **SL₂(\mathbb{R})** S. Lang, 1985-08-23 This book introduces the infinite dimensional representation theory of semisimple Lie groups by concentrating on one example SL₂(\mathbb{R}) The contents are accessible to a wide audience requiring only a knowledge of real analysis and some differential equations

Several Complex Variables and Banach Algebras Herbert Alexander, John Wermer, 1998 Many connections have been found between the theory of analytic functions of one or more complex variables and the study of commutative Banach algebras While function theory has often been employed to answer algebraic questions such as the existence of idempotents in a Banach algebra concepts arising from the study of Banach algebras including the maximal ideal space the Silov boundary Geason parts etc have led to new questions and to new methods of proofs in function theory This book is concerned with developing some of the principal applications of function theory in several complex variables to Banach algebras The authors do not presuppose any knowledge of several complex variables on the part of the reader and all relevant material is developed within the text Furthermore the book deals with problems of uniform approximation on compact subsets of the space of n complex variables The third edition of this book contains new material on maximum modulus algebras and subharmonicity the hull of a smooth curve integral kernels perturbations of the Stone Weierstrass Theorem boundaries of analytic varieties polynomial hulls of sets over the circle areas and the topology of hulls The authors have also included a new chapter containing commentaries on history and recent developments and an updated and expanded reading list

Riemann Surfaces Hershel M. Farkas, Irwin Kra, 1991-12-23 This text covers Riemann surface theory from elementary aspects to the frontiers of current research Open and closed surfaces are treated with emphasis on the compact case while basic tools are developed to describe the analytic geometric and algebraic properties of Riemann surfaces and the associated Abelian varieties Topics covered include existence of meromorphic functions the Riemann Roch theorem Abel's theorem the Jacobi inversion problem Noether's theorem and the Riemann vanishing theorem A complete treatment of the uniformization of Riemann surfaces via Fuchsian groups including branched coverings is presented as are alternate proofs for the most important results showing the diversity of approaches to the subject Of interest not only to pure mathematicians but also to physicists interested in string theory and related topics

Categories for the Working Mathematician Saunders Mac Lane, 2013-04-17 Categories for the Working Mathematician provides an array of general ideas useful in a wide variety of fields Starting from the foundations this book illuminates the concepts of category functor natural transformation and duality The book then turns to adjoint functors which provide a description of universal constructions an analysis of the representations of functors by sets of morphisms and a means of manipulating direct and inverse limits These categorical concepts are extensively illustrated in the remaining chapters which include many applications of the basic existence theorem for adjoint functors The categories of algebraic systems are constructed from certain adjoint like data and characterized by Beck's theorem After considering a variety of applications the book continues with the construction and exploitation of Kan extensions This second edition includes a number of revisions and additions including two new chapters on topics of active interest One is on symmetric monoidal categories and braided monoidal categories and the coherence theorems for them The second describes 2 categories and the higher dimensional categories which have recently come into

prominence The bibliography has also been expanded to cover some of the many other recent advances concerning categories

Combinatorial Convexity and Algebraic Geometry Günter Ewald, 2012-12-06 The aim of this book is to provide an introduction for students and nonspecialists to a fascinating relation between combinatorial geometry and algebraic geometry as it has developed during the last two decades This relation is known as the theory of toric varieties or sometimes as torus embeddings Chapters I IV provide a self contained introduction to the theory of convex polytopes and polyhedral sets and can be used independently of any applications to algebraic geometry Chapter V forms a link between the first and second part of the book Though its material belongs to combinatorial convexity its definitions and theorems are motivated by toric varieties Often they simply translate algebraic geometric facts into combinatorial language Chapters VI VIII introduce toric varieties in an elementary way but one which may not for specialists be the most elegant In considering toric varieties many of the general notions of algebraic geometry occur and they can be dealt with in a concrete way Therefore Part 2 of the book may also serve as an introduction to algebraic geometry and preparation for farther reaching texts about this field The prerequisites for both parts of the book are standard facts in linear algebra including some facts on rings and fields and calculus Assuming those all proofs in Chapters I VII are complete with one exception IV Theorem 5.1 In Chapter VIII we use a few additional prerequisites with references from appropriate texts

From Holomorphic Functions to Complex Manifolds Klaus Fritzsche, Hans Grauert, 2012-12-06 The aim of this book is to give an understandable introduction to the theory of complex manifolds With very few exceptions we give complete proofs Many examples and figures along with quite a few exercises are included Our intent is to familiarize the reader with the most important branches and methods in complex analysis of several variables and to do this as simply as possible Therefore the abstract concepts involved with sheaves coherence and higher dimensional cohomology are avoided Only elementary methods such as power series holomorphic vector bundles and one dimensional cocycles are used Nevertheless deep results can be proved for example the Remmert Stein theorem for analytic sets finiteness theorems for spaces of cross sections in holomorphic vector bundles and the solution of the Levi problem The first chapter deals with holomorphic functions defined in open subsets of the space \mathbb{C}^n Many of the well known properties of holomorphic functions of one variable such as the Cauchy integral formula or the maximum principle can be applied directly to obtain corresponding properties of holomorphic functions of several variables Furthermore certain properties of differentiable functions of several variables such as the implicit and inverse function theorems extend easily to holomorphic functions

Introduction to Smooth Manifolds John M. Lee, 2013-03-09 Manifolds are everywhere These generalizations of curves and surfaces to arbitrarily many dimensions provide the mathematical context for understanding space in all of its manifestations Today the tools of manifold theory are indispensable in most major subfields of pure mathematics and outside of pure mathematics they are becoming increasingly important to scientists in such diverse fields as genetics robotics econometrics computer graphics biomedical imaging and of

course the undisputed leader among consumers and inspirers of mathematics theoretical physics No longer a specialized subject that is studied only by differential geometers manifold theory is now one of the basic skills that all mathematics students should acquire as early as possible Over the past few centuries mathematicians have developed a wondrous collection of conceptual machines designed to enable us to peer ever more deeply into the invisible world of geometry in higher dimensions Once their operation is mastered these powerful machines enable us to think geometrically about the 6 dimensional zero set of a polynomial in four complex variables or the 10 dimensional manifold of 5×5 orthogonal matrices as easily as we think about the familiar 2 dimensional sphere in \mathbb{R}^3

The Structure of Intelligence Ben Goertzel, 2013-03-07

0 0 Psychology versus Complex Systems Science Over the last century psychology has become much less of an art and much more of a science Philosophical speculation is out data collection is in In many ways this has been a very positive trend Cognitive science Mandler 1985 has given us scientific analyses of a variety of intelligent behaviors short term memory language processing vision processing etc And thanks to molecular psychology Franklin 1985 we now have a rudimentary understanding of the chemical processes underlying personality and mental illness However there is a growing feeling particularly among non psychologists see e g Sommerhoff 1990 that with the new emphasis on data collection something important has been lost Very little attention is paid to the question of how it all fits together The early psychologists and the classical philosophers of mind were concerned with the general nature of mentality as much as with the mechanisms underlying specific phenomena But the new scientific psychology has made disappointingly little progress toward the resolution of these more general questions One way to deal with this complaint is to dismiss the questions themselves After all one might argue a scientific psychology cannot be expected to deal with fuzzy philosophical questions that probably have little empirical significance It is interesting that behaviorists and cognitive scientists tend to be in agreement regarding the question of the overall structure of the mind

The Arithmetic of Hyperbolic 3-Manifolds Colin Maclachlan, Alan W. Reid, 2013-04-17 For the past 25 years the Geometrization Program of Thurston has been a driving force for research in 3 manifold topology This has inspired a surge of activity investigating hyperbolic 3 manifolds and Kleinian groups as these manifolds form the largest and least well understood class of compact 3 manifolds Familiar and new tools from diverse areas of mathematics have been utilized in these investigations from topology geometry analysis group theory and from the point of view of this book algebra and number theory This book is aimed at readers already familiar with the basics of hyperbolic 3 manifolds or Kleinian groups and it is intended to introduce them to the interesting connections with number theory and the tools that will be required to pursue them While there are a number of texts which cover the topological geometric and analytical aspects of hyperbolic 3 manifolds this book is unique in that it deals exclusively with the arithmetic aspects which are not covered in other texts Colin Maclachlan is a Reader in the Department of Mathematical Sciences at the University of Aberdeen in Scotland where he has served since 1968 He is a former President of the Edinburgh Mathematical Society Alan

Reid is a Professor in the Department of Mathematics at The University of Texas at Austin He is a former Royal Society University Research Fellow Alfred P Sloan Fellow and winner of the Sir Edmund Whittaker Prize from The Edinburgh Mathematical Society Both authors have published extensively in the general area of discrete groups hyperbolic manifolds and low dimensional topology

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First Course In Algebra And Number Theory Introduction

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