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A. I. Kostrikin · I. R. Shafarevich (Eds.)

Algebra II



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Algebra Ii Noncommutative Rings Identities

Encyclopaedia Of Mathematical Sciences

A. V. Arhangel' skii



Algebra II Noncommutative Rings Identities Encyclopaedia Of Mathematical Sciences:

Algebra II A.I. Kostrikin, I.R. Shafarevich, 2012-12-06 The algebra of square matrices of size $n \geq 2$ over the field of complex numbers is evidently the best known example of a non commutative algebra Subalgebras and subrings of this algebra for example the ring of $n \times n$ matrices with integral entries arise naturally in many areas of mathematics Historically however the study of matrix algebras was preceded by the discovery of quaternions which introduced in 1843 by Hamilton found applications in the classical mechanics of the past century Later it turned out that quaternion analysis had important applications in field theory The algebra of quaternions has become one of the classical mathematical objects it is used for instance in algebra geometry and topology We will briefly focus on other examples of non commutative rings and algebras which arise naturally in mathematics and in mathematical physics The exterior algebra or Grassmann algebra is widely used in differential geometry for example in geometric theory of integration Clifford algebras which include exterior algebras as a special case have applications in representation theory and in algebraic topology The Weyl algebra The algebra of differential operators with polynomial coefficients often appears in the representation theory of Lie algebras In recent years modules over the Weyl algebra and sheaves of such modules became the foundation of the so called microlocal analysis The theory of operator algebras

Algebra II, 1991 **Algebra II** Алексей Иванович Кострикин, 1991-08 Volume 2 Algebraic Geometry II I.R. Shafarevich, 1995-12-21 This two part volume contains numerous examples and insights on various topics The authors have taken pains to present the material rigorously and coherently This book will be immensely useful to mathematicians and graduate students working in algebraic geometry arithmetic algebraic geometry complex analysis and related fields

Algebraic Geometry I V.I. Danilov, V.V. Shokurov, 2013-12-01 From the reviews This volume consists of two papers The first written by V V Shokurov is devoted to the theory of Riemann surfaces and algebraic curves It is an excellent overview of the theory of relations between Riemann surfaces and their models complex algebraic curves in complex projective spaces The second paper written by V I Danilov discusses algebraic varieties and schemes I can recommend the book as a very good introduction to the basic algebraic geometry European Mathematical Society Newsletter 1996 To sum up this book helps to learn algebraic geometry in a short time its concrete style is enjoyable for students and reveals the beauty of mathematics Acta Scientiarum Mathematicarum

Several Complex Variables VII H. Grauert, Thomas Peternell, R. Remmert, 2013-03-09 Of making many books there is no end and much study is a weariness of the flesh Eccl 12 12 1 In the beginning Riemann created the surfaces The periods of integrals of abelian differentials on a compact surface of genus g immediately attach a $2g$ dimensional complex torus to X If $g \geq 2$ the moduli space of X depends on $3g - 3$ complex parameters Thus problems in one complex variable lead from the very beginning to studies in several complex variables Complex tori and moduli spaces are complex manifolds i.e Hausdorff spaces with local complex coordinates $z_1, \dots, z_n$ holomorphic functions are locally those functions which are holomorphic in these coordinates th In the second half of the 19

century classical algebraic geometry was born in Italy The objects are sets of common zeros of polynomials Such sets are of finite dimension but may have singularities forming a closed subset of lower dimension outside of the singular locus these zero sets are complex manifolds **Several Complex Variables II** G.M. Khenkin,A.G. Vitushkin,2012-12-06

Plurisubharmonic functions play a major role in the theory of functions of several complex variables The extensiveness of plurisubharmonic functions the simplicity of their definition together with the richness of their properties and most importantly their close connection with holomorphic functions have assured plurisubharmonic functions a lasting place in multidimensional complex analysis Pluri subharmonic functions first made their appearance in the works of Hartogs at the beginning of the century They figure in an essential way for example in the proof of the famous theorem of Hartogs 1906 on joint holomorphicity Defined at first on the complex plane $\mathbb{C}$ the class of subharmonic functions became thereafter one of the most fundamental tools in the investigation of analytic functions of one or several variables The theory of subharmonic functions was developed and generalized in various directions subharmonic functions in Euclidean space $\mathbb{R}^n$ plurisubharmonic functions in complex space $\mathbb{C}^n$ and others Subharmonic functions and the foundations of the associated classical potential theory are sufficiently well exposed in the literature and so we introduce here only a few fundamental results which we require More detailed expositions can be found in the monographs of Privalov 1937 Brelot 1961 and Landkof 1966 See also Brelot 1972 where a history of the development of the theory of subharmonic functions is given

Representations of Finite-Dimensional Algebras Peter Gabriel, Andrei V. Roiter, 1992-10-08 From the reviews Gabriel and Roiter are pioneers in this subject and they have included proofs for statements which in their opinions are elementary those which will help further understanding and those which are scarcely available elsewhere They attempt to take us up to the point where we can find our way in the original literature The Mathematical Gazette Homological Algebra S.I. Gelfand, Yu.I. Manin, 1994-03-29 This book the first printing of which was published as volume 38 of the Encyclopaedia of Mathematical Sciences presents a modern approach to homological algebra based on the systematic use of the terminology and ideas of derived categories and derived functors The book contains applications of homological algebra to the theory of sheaves on topological spaces to Hodge theory and to the theory of modules over rings of algebraic differential operators algebraic D modules The authors Gelfand and Manin explain all the main ideas of the theory of derived categories Both authors are well known researchers and the second Manin is famous for his work in algebraic geometry and mathematical physics The book is an excellent reference for graduate students and researchers in mathematics and also for physicists who use methods from algebraic geometry and algebraic topology **Lie Groups and Lie Algebras III** A.L. Onishchik, E.B. Vinberg, 1994-07-12 A comprehensive and modern account of the structure and classification of Lie groups and finite dimensional Lie algebras by internationally known specialists in the field This Encyclopaedia volume will be immensely useful to graduate students in differential geometry algebra and theoretical physics **Algebra IX** A.I. Kostrikin, I.R.

Shafarevich, 2013-04-17 The first contribution covers the theory of finite groups of Lie type which is an important field of current mathematical research After giving the basic information Carter describes the Deligne Lusztig method of obtaining characters of these groups using l -adic cohomology and subsequent work of Lusztig The second part by Platonov and Yanchevskii surveys the structure of finite dimensional division algebras and includes an account of reduced K theory

Commutative Harmonic Analysis I V.P. Khavin, N.K. Nikol'skij, 2013-03-09 This volume is the first in the series devoted to the commutative harmonic analysis a fundamental part of the contemporary mathematics The fundamental nature of this subject however has been determined so long ago that unlike in other volumes of this publication we have to start with simple notions which have been in constant use in mathematics and physics Planning the series as a whole we have assumed that harmonic analysis is based on a small number of axioms simply and clearly formulated in terms of group theory which illustrate its sources of ideas However our subject cannot be completely reduced to those axioms This part of mathematics is so well developed and has so many different sides to it that no abstract scheme is able to cover its immense concreteness completely In particular it relates to an enormous stock of facts accumulated by the classical trigonometric harmonic analysis Moreover subjected to a general mathematical tendency of integration and diffusion of conventional intersubject borders harmonic analysis in its modern form more and more rests on non translation invariant constructions For example one of the most significant achievements of latter decades which has substantially changed the whole shape of harmonic analysis is the penetration in this subject of subtle techniques of singular integral operators

Geometry II E.B. Vinberg, 2013-04-17 Spaces of constant curvature i.e. Euclidean space the sphere and Lobachevskij space occupy a special place in geometry They are most accessible to our geometric intuition making it possible to develop elementary geometry in a way very similar to that used to create the geometry we learned at school However since its basic notions can be interpreted in different ways this geometry can be applied to objects other than the conventional physical space the original source of our geometric intuition Euclidean geometry has for a long time been deeply rooted in the human mind The same is true of spherical geometry since a sphere can naturally be embedded into a Euclidean space Lobachevskij geometry which in the first fifty years after its discovery had been regarded only as a logically feasible by-product appearing in the investigation of the foundations of geometry has even now despite the fact that it has found its use in numerous applications preserved a kind of exotic and even romantic element This may probably be explained by the permanent cultural and historical impact which the proof of the independence of the Fifth Postulate had on human thought

General Topology III A. V. Arhangel'skii, 2013-03-09 The problem of metrization of topological spaces has had an enormous influence on the development of general topology Singling out the basic topological components of metrizability has determined the main reference points in the construction of the classification of topological spaces These are primarily paracompactness collectionwise normality monotonic normality and perfect normality the concepts of a stratifiable space Moore space and u space point countable base

and uniform base The method of covers has taken up a leading role in this classification Of paramount significance in the applications of this method have been the properties of covers relating to the character of their elements open covers closed covers the mutual disposition of these elements star finite point finite locally finite covers etc as well as the relations of refinement between covers simple refinement refinement with closure combinatorial refinement star and strong star refinement On this basis a hierarchy of properties of paracompactness type has been singled out together with the classes of spaces corresponding to them the most important of which is the class of paracompacta The behaviour of families of covers with respect to the topology of a space has important significance Here first and foremost is the notion of a refining family of covers a development which appears in several modifications and together with the notion of paracompactness plays a key role in metrization problems

Geometry V Robert Osserman, 2013-03-14 Few people outside of mathematics are aware of the varieties of mathematical experience the degree to which different mathematical subjects have different and distinctive flavors often attractive to some mathematicians and repellant to others The particular flavor of the subject of minimal surfaces seems to lie in a combination of the concreteness of the objects being studied their origin and relation to the physical world and the way they lie at the intersection of so many different parts of mathematics In the past fifteen years a new component has been added the availability of computer graphics to provide illustrations that are both mathematically instructive and esthetically pleasing During the course of the twentieth century two major thrusts have played a seminal role in the evolution of minimal surface theory The first is the work on the Plateau Problem whose initial phase culminated in the solution for which Jesse Douglas was awarded one of the first two Fields Medals in 1936 The other Fields Medal that year went to Lars V Ahlfors for his contributions to complex analysis including his important new insights in Nevanlinna Theory The second was the innovative approach to partial differential equations by Serge Bernstein which led to the celebrated Bernstein's Theorem stating that the only solution to the minimal surface equation over the whole plane is the trivial solution a linear function

Analysis II Revaz V. Gamkrelidze, 2012-12-06 Intended for a wide range of readers this book covers the main ideas of convex analysis and approximation theory The author discusses the sources of these two trends in mathematical analysis develops the main concepts and results and mentions some beautiful theorems The relationship of convex analysis to optimization problems to the calculus of variations to optimal control and to geometry is considered and the evolution of the ideas underlying approximation theory from its origins to the present day is discussed The book is addressed both to students who want to acquaint themselves with these trends and to lecturers in mathematical analysis optimization and numerical methods as well as to researchers in these fields who would like to tackle the topic as a whole and seek inspiration for its further development

Geometry III Yu.D. Burago, V.A. Zalgaller, 2013-03-14 The original version of this article was written more than five years ago with S Z Shefel a profound and original mathematician who died in 1984 Since then the geometry of surfaces has continued to be enriched with ideas and results This has required changes and

additions but has not influenced the character of the article the design of which originated with Shefel Without knowing to what extent Shefel would have approved the changes I should nevertheless like to dedicate this article to his memory Yu D Burago We are trying to state the qualitative questions of the theory of surfaces in Euclidean spaces in the form in which they appear to the authors at present This description does not entirely correspond to the historical development of the subject The theory of surfaces was developed in the first place mainly as the 3 theory of surfaces in three dimensional Euclidean space E however it makes sense to begin by considering surfaces F in Euclidean spaces of any dimension $n \geq 3$ This approach enables us in particular to put in a new light some 3 unsolved problems of this developed and in the case of surfaces in E fairly complete theory and in many cases to refer to the connections with the present stage of development of the theory of multidimensional submanifolds The leading question of the article is the problem of the connection between classes of metrics and classes of surfaces in E_n

Methods in Ring Theory Vesselin Drensky, 2021-02-27 Furnishes important research papers and results on group algebras and PI algebras presented recently at the Conference on Methods in Ring Theory held in Levico Terme Italy familiarizing researchers with the latest topics techniques and methodologies encompassing contemporary algebra

Topology I S.P. Novikov, 2013-06-29 Introduction In the present essay we attempt to convey some idea of the skeleton of topology and of various topological concepts It must be said at once that apart from the necessary minimum the subject matter of this survey does not include that subdiscipline known as general topology the theory of general spaces and maps considered in the context of set theory and general category theory Doubtless this subject will be surveyed in detail by others With this qualification it may be claimed that the topology dealt with in the present survey is that mathematical subject which in the late 19th century was called Analysis Situs and at various later periods separated out into various subdisciplines Combinatorial topology Algebraic topology Differential or smooth topology Homotopy theory Geometric topology With the growth over a long period of time in applications of topology to other areas of mathematics the following further subdisciplines crystallized out the global calculus of variations global geometry the topology of Lie groups and homogeneous spaces the topology of complex manifolds and algebraic varieties the qualitative topological theory of dynamical systems and foliations the topology of elliptic and hyperbolic partial differential equations Finally in the 1970s and 80s a whole complex of applications of topological methods was made to problems of modern physics in fact in several instances it would have been impossible to understand the essence of the real physical phenomena in question without the aid of concepts from topology

Algebra VII D.J. Collins, R.I. Grigorchuk, P.F. Kurchanov, H. Zieschang, 2013-12-01 From the reviews The book under review consists of two monographs on geometric aspects of group theory Together these two articles form a wide ranging survey of combinatorial group theory with emphasis very much on the geometric roots of the subject This will be a useful reference work for the expert as well as providing an overview of the subject for the outsider or novice Many different topics are described and explored with the main results presented but not proved This allows the

interested reader to get the flavour of these topics without becoming bogged down in detail Both articles give comprehensive bibliographies so that it is possible to use this book as the starting point for a more detailed study of a particular topic of interest Bulletin of the London Mathematical Society 1996

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