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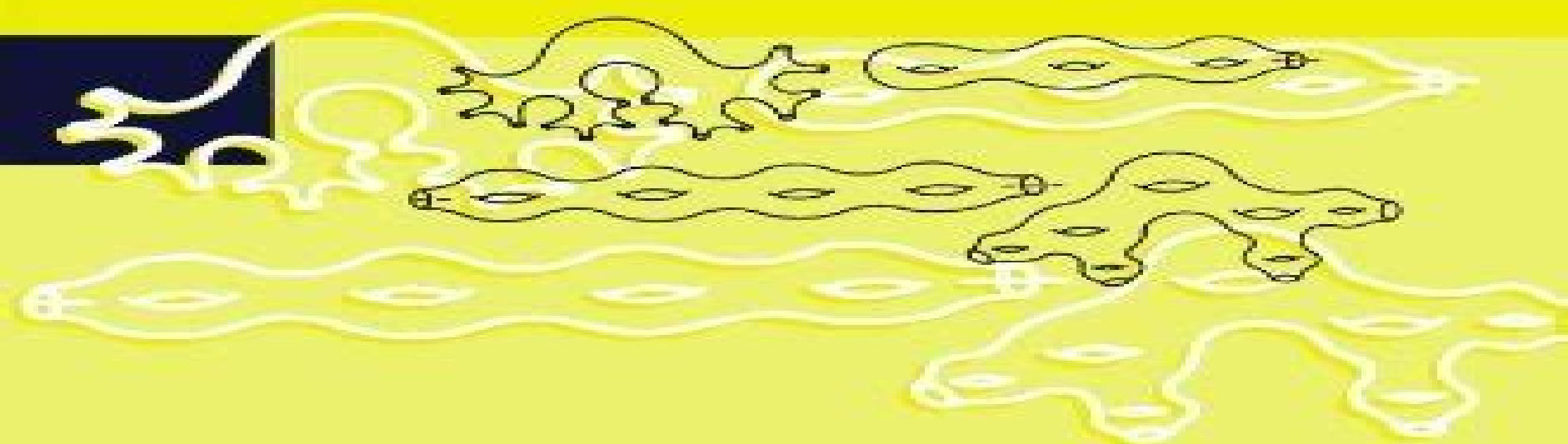
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Sergei Kurgalin,Sergei Borzunov

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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 **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 *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 9 immediately attach a g dimensional complex torus to X If 9 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 Zn 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 **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 **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 *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 *Geometry III* Yu.D. Burago,V.A. Zalgaller,2013-03-14 The original version of this article was written more than fiveyears ago with S Z Shefel a profound and original mathematician who died in 1984 Sincethen 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 ofwhich 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 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 ofdevelopment 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 En 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 Geometry V Robert Osserman,2013-03-14 Few people outside of mathematics are aware of the varieties of mathemat ical 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 pleas ing 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 **Algorithmic Problems of Group Theory, Their Complexity, and Applications to Cryptography** Delaram Kahrobaei, Vladimir Shpilrain,2015-02-25 This volume contains the proceedings of the AMS Special Session on Algorithmic Problems of Group Theory and Their Complexity held January 9 10 2013 in San Diego CA and the AMS Special Session on Algorithmic Problems of Group Theory and Applications to Information Security held April 6 7 2013 at Boston College Chestnut Hill MA Over the past few years the field of group based cryptography has attracted attention from both group theorists and cryptographers The new techniques inspired by algorithmic problems in non commutative group theory and their complexity have offered promising ideas for developing new cryptographic protocols The papers in this volume cover algorithmic group theory and applications to cryptography **Several Complex Variables II** G.M. Khenkin,A.G. Vitushkin,2012-12-06 Plurisubharmonic functions playa 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 IC 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 IRn plurisubharmonic functionsin complex space en and others Subharmonic functions and the foundations ofthe associated classical poten tial 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

Geometry II E.B. Vinberg,2013-04-17 Spaces of constant curvature i e Euclidean space the sphere and Loba chevskij 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 **Geometry IV** Yurĭi Grigorevĭc Reshetnyak,1993-10-14 This book contains two surveys on modern research into non regular Riemannian geometry carried out mostly by Russian mathematicians Coverage examines two dimensional Riemannian manifolds of bounded curvature and metric spaces whose curvature lies between two given constants This book will be immensely useful to graduate students and researchers in geometry in particular Riemannian geometry **Algebra VII** A. N. Parshin,1993

Non-metrisable Manifolds David Gauld,2014-12-04 Manifolds fall naturally into two classes depending on whether they can be fitted with a distance measuring function or not The former metrisable manifolds and especially compact manifolds have been intensively studied by topologists for over a century whereas the latter non metrisable manifolds are much more abundant but have a more modest history having become of increasing interest only over the past 40 years or so The first book on this topic this book ranges from criteria for metrisability dynamics on non metrisable manifolds Nyikos s Bagpipe Theorem and whether perfectly normal manifolds are metrisable to structures on manifolds especially the abundance of exotic differential structures and the dearth of foliations on the long plane A rigid foliation of the Euclidean plane is described This book is intended for graduate students and mathematicians who are curious about manifolds beyond the metrisability wall and especially the use of Set Theory as a tool **Encyclopaedia of Mathematics, Supplement III** Michiel Hazewinkel,2007-11-23 This is the third supplementary volume to Kluwer s highly acclaimed twelve volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing twelve volumes and together these thirteen volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available **Algebra and Geometry with Python** Sergei Kurgalin,Sergei Borzunov,2021-01-18 This book teaches algebra and geometry The authors dedicate chapters to the key issues of matrices linear equations matrix algorithms vector spaces lines planes second order curves and elliptic curves The text is supported throughout with problems and the authors have included source code in Python in the book The book is suitable for advanced undergraduate and graduate students in computer science

Number Theory II A. N. Parshin,Игорь Ростиславович Шафаревич,1992 Volume 62 of the Encyclopedia presents the

main structures and results of algebraic number theory with emphasis on algebraic number fields and class field theory Written for the nonspecialist the author assumes a general understanding of modern algebra and elementary number theory Only the general properties of algebraic number fields and relate **Model Theory of Operator Algebras** Isaac Goldbring,2023-07-24 Continuous model theory is an extension of classical first order logic which is best suited for classes of structures which are endowed with a metric Applications have grown considerably in the past decade This book is dedicated to showing how the techniques of continuous model theory are used to study C algebras and von Neumann algebras This book geared to researchers in both logic and functional analysis provides the first self contained collection of articles surveying the many applications of continuous logic to operator algebras that have been obtained in the last 15 years

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