Thirteen Papers In Algebra Functional Analysis Topology And Probability Translated From The Russian

Thirteen Papers in Algebra, Functional Analysis, Topology, and Probability Translated from the Russian-Ya. G. Berkovich 1991 This collection of papers ranges over several areas of research, including matrix theory, group theory, functional analysis, Morse theory, global analysis, and probability theory.

American Mathematical Society Translations-American Mathematical Society 1949 Translations of articles on mathematics appearing in various Russian mathematical serials.

Thirteen papers on functional analysis- 1970-12-31

Three Papers on Algebras and Their Representations-V. N. Gerasimov 1993 This volume contains the doctoral dissertations of three students from Novosibirsk who participated in the seminar of L.A. Bokut. The dissertation of Gerasimov focuses on Cohn's theory of noncommutative matrix localizations. Gerasimov presents a construction of matrix localization that is not directly related to (prime) matrix ideals of Cohn, but rather deals with localizations of arbitrary subsets of matrices over a ring. The work of Valitskas applies ideas and constructions of Gerasimov to embeddings of rings into radical rings (in the sense of Jacobson) to develop a theory essentially parallel to Cohn's theory of embeddings of rings into skew fields. Nesterenko's dissertation solves some important problems of Ananin and Bergman about representations of (infinite-dimensional) algebras and categories in (triangular) matrices over commutative rings.

Thirteen papers on algebra, topology, complex variables, and linear programming-I. E. Bazilevic 1968-12-31


Second Siberian Winter School "Algebra and Analysis"-Leonid A. Bokut 1992 This book, the second in the series of proceedings of Soviet Regional Conferences, contains papers presented at the Second Siberian Winter School: Algebra and Analysis, held at Tomsk State University in 1989. The papers touch on a variety of topics, including Lie algebras and Lie groups, sheaves, superalgebras, graded Lie algebras, Teichmuller theory, nonstandard functional analysis, hyperbolic geometry, $p$-adic $L$-functions, automorphic forms, and resolution of singularities.

Third Siberian School: Algebra and Analysis-Leonid Arkad’evich Bokut’ 1995

Selected Papers on Analysis, Probability, and Statistics-Katsumi Nomizu 1994 This book presents papers that originally appeared in the Japanese journal Sugaku. The papers fall into the general area of mathematical analysis as it pertains to probability and statistics, dynamical systems, differential equations and analytic function theory. Among the topics discussed are: stochastic differential equations, spectra of the Laplacian and Schrodinger operators, nonlinear partial differential equations which generate dissipative dynamical systems, fractal analysis on self-similar sets and the global structure of analytic functions.

Lie Groups and Lie Algebras: E. B. Dynkin's Seminar-Semen Grigor’evich Gindikin 1995 In celebration of E.B. Dynkin's 70th birthday, this book presents current papers by those who participated in Dynkin's seminar on Lie groups and Lie algebras in the late 1950s and early 1960s. Dynkin had a major influence not only on mathematics, but also on the students who attended his seminar-many of whom are today's leading mathematicians in Russia and in the U.S. Dynkin's contributions to the theory of Lie groups is well known, and the survey paper by Karpelevich, Onishchik, and Vinberg allows readers to gain a deeper understanding of this work. Features several
aspects of modern develop.

Wave propagation. Scattering theory-M. Sh Birman 1993-12-20 The papers in this collection were written primarily by members of the St. Petersburg seminar in mathematical physics. The seminar, now run by O. A. Ladyzhenskaya, was initiated in 1947 by V. I. Smirnov, to whose memory this volume is dedicated. The papers in the collection are devoted mainly to wave propagation processes, scattering theory, integrability of nonlinear equations, and related problems of spectral theory of differential and integral operators. The book is of interest to mathematicians working in mathematical physics and differential equations, as well as to physicists studying various wave propagation processes.

Applied Problems of Radon Transform-Semen Grigor’evich Gindikin 1994 This collection is designed to acquaint readers with advances in Radon transforms carried out in the former Soviet Union. The papers focus on mathematical problems related to applications of Radon transforms. Some of the problems arose from practical tomography, while others are theoretical problems originating in tomography. The book should be of use to mathematicians working in integral geometry and mathematical problems of tomography, as well as scientists who work on inverse problems and their computer realization.


Selected topics in discrete mathematics: Proceedings of the Moscow Discrete Mathematics Seminar, 1972-1990-Alexander K. Kelmans 1994-02-18 This is a collection of translations of a variety of papers on discrete mathematics by members of the Moscow Seminar on Discrete Mathematics. This seminar, begun in 1972, was marked by active participation and intellectual ferment. Mathematicians in the USSR often encountered difficulties in publishing, so many interesting results in discrete mathematics remained unknown in the West for some years, and some are unknown even to the present day. To help fill this communication gap, this collection offers papers that were obscurely published and very hard to find. Among the topics covered here are: graph theory, network flow and multicommodity flow, linear programming and combinatorial optimization, matroid theory and submodular systems, matrix theory and combinatorics, parallel computing, complexity of algorithms, random graphs and statistical mechanics, coding theory, and algebraic combinatorics and group theory.


Nonlinear Evolution Equations-Nina Nikolaevna Uraltseva 1995-05-19 This collection focuses on nonlinear problems in partial differential equations. Most of the papers are based on lectures presented at the seminar on partial differential equations and mathematical physics at St. Petersburg University. Among the topics explored are the existence and properties of solutions of various classes of nonlinear evolution equations, nonlinear imbedding theorems, bifurcations of solutions, and equations of mathematical physics (Navier-Stokes type equations and the nonlinear Schrodinger equation). The book will be useful to researchers and graduate students working in partial differential equations and mathematical physics.

Concerning the Hilbert 16th Problem-S. Yakovenko 1995

Selected Papers on Number Theory and Algebraic Geometry-Katsumi Nomizu 1996 This book presents papers that originally appeared in the Japanese journal Sugaku from the Mathematical...
Society of Japan. The papers explore the relationship between number theory and algebraic geometry.

Proceedings of the St. Petersburg Mathematical Society Volume III-Olga Aleksandrovna Ladyzhenskai a 1995-06-20 Books in this series highlight some of the most interesting works presented at symposia sponsored by the St. Petersburg Mathematical Society. Aimed at researchers in number theory, field theory, and algebraic geometry, the present volume deals primarily with aspects of the theory of higher local fields and other types of complete discretely valuated fields. Most of the papers require background in local class field theory and algebraic $K$-theory; however, two of them, "Unit Fractions" and "Collections of Multiple Sums", would be accessible to undergraduates.

Ordered Sets and Lattices II- This indispensable reference source contains a wealth of information on lattice theory. The book presents a survey of virtually everything published in the fields of partially ordered sets, semilattices, lattices, and Boolean algebras that was reviewed in Referativnyi Zhurnal Matematika from mid-1982 to the end of 1985. A continuation of a previous volume (the English translation of which was published by the AMS in 1989, as volume 141 in Translations - Series 2), this comprehensive work contains more than 2200 references. Many of the papers covered here were originally published in virtually inaccessible places. The compilation of the volume was directed by Milan Kolibiar of Comenius University at Bratislava and Lev A. Skornyakov of Moscow University. Of interest to mathematicians, as well as to philosophers and computer scientists in certain areas, this unique compendium is a must for any mathematical library.

Singularity Theory and Some Problems of Functional Analysis-Semen Grigor’evich Gindikin 1992 The emergence of singularity theory marks the return of mathematics to the study of the simplest analytical objects: functions, graphs, curves, surfaces. The modern singularity theory for smooth mappings, which is currently undergoing intensive development, can be thought of as a crossroad where the most abstract topics (such as algebraic and differential geometry and topology, complex analysis, invariant theory, and Lie group theory) meet the most applied topics (such as dynamical systems, mathematical physics, geometrical optics, mathematical economics, and control theory). The papers in this volume include reviews of established areas as well as presentations of recent results in singularity theory. The authors have paid special attention to examples and discussion of results rather than burying the ideas in formalism, notation, and technical details. The aim is to introduce all mathematicians—as well as physicists, engineers, and other consumers of singularity theory—to the world of ideas and methods in this burgeoning area.

Thirteen papers on algebra and analysis-B. L. Golinskii 1968-12-31

Topics in Topology and Mathematical Physics-Sergei Petrovich Novikov 1995

The Interplay between Differential Geometry and Differential Equations-Valentin Vasil’evich Lychagin 1995

Dynamical Systems in Classical Mechanics-Valerii Viktorovich Kozylov 1995 This book shows that the phenomenon of integrability is related not only to Hamiltonian systems, but also to a wider variety of systems having invariant measures that often arise in nonholonomic mechanics. Each paper presents unique ideas and original approaches to various mathematical problems related to integrability, stability, and chaos in classical dynamics. Topics include ... the inverse Lyapunov theorem on stability of equilibria geometrical aspects of Hamiltonian mechanics from a hydrodynamic perspective current unsolved problems in the dynamical systems approach to classical mechanics Topology of real algebraic varieties and related topics-V. Kharlamov 1996

Thirteen papers on functional analysis and differential equations-V. I. Arnol’d 1968-12-31

Sinai’s Moscow Seminar on Dynamical Systems-I︠A︡kov Grigor’evich Sinai 1996

Model Theory and Applications-O.V. Belegradek 1999 This volume is a collection of papers on model theory and its applications. The longest paper, "Model Theory of Unitriangular Groups" by O. V. Belegradek, forms a subtle general theory behind Mal’tsev’s famous correspondence between rings and groups. This is the first published paper on the topic. Given the present model-theoretic interest in algebraic groups, Belegradek’s work is of particular interest to logicians and algebraists. The rest
of the collection consists of papers on various questions of model theory, mainly on stability theory. Contributors are leading Russian researchers in the field.

Thirteen papers on functional analysis and partial differential equations-M.S. Brodski_ 1965-12-31

Mathematics in St. Petersburg-A. A. Bolibruck 1996

Proceedings of the St. Petersburg Mathematical Society-N.N. Uraltseva (Mathematikerin, Russland)

This collection presents new results in algebra, functional analysis, and mathematical physics. In particular, evolution and spectral problems related to small motions of viscoelastic fluid are considered. Specific areas covered in the book include functional equations and functional operator equations from the point of view of the $C*$-algebraic approach, the existence of an isomorphism between certain ideals regarded as Galois modules, spectral problems in singularly perturbed domains, scattering theory, the existence of bounded solutions to the equation $\operatorname{div} u = f$ in a plane domain, and a compactification of a locally compact group. Also given is an historic overview of the mathematical seminars held at St. Petersburg State University. The results, ideas, and methods given in the book will be of interest to a broad range of specialists.

Selected Papers on Classical Analysis-野水克己 2001 This volume contains papers that originally appeared in Japanese in the journal Sugaku. Ordinarily the papers would appear in the AMS translation of that journal, but to expedite publication, the Society has chosen to publish them as a volume of selected papers. The papers here are in the general area of mathematical analysis as it pertains to free probability theory.

Some questions of differential geometry in the large-E. V. Shikin 1996-07-16 This collection contains articles that present recent results by geometers in Russia and the Ukraine. Papers in the collection deal with various questions related to the structure, symmetries, and embeddings of submanifolds in Euclidean and pseudo-Euclidian spaces. This collection offers a review of the challenges facing specialists in geometry in the large and features current research in the field.

Topics in Statistical and Theoretical Physics-R. L. Dobrushin 1996


Problems of reducing the exhaustive search-G. E. Mints 1996-11-05 This collection contains translations of papers on propositional satisfiability and related logical problems which appeared in Problemy Sokrashcheniya Perebora, published in Russian in 1987 by the Scientific Council ``Cybernetics'' of the USSR Academy of Sciences. The problems form the nucleus of this intensively developing area. This translation is dedicated to the memory of two remarkable Russian mathematicians, Sergei Maslov and his wife, Nina Maslova. Maslov is known as the originator of the inverse method in automated deduction, which was discovered at the same time as the resolution method of J. A. Robinson and has approximately the same range of applications. In 1981, Maslov proposed an iterative algorithm for propositional satisfiability based on some general ideas of search described in detail in his posthumously published book, Theory of Deductive Systems and Its Applications (1986; English 1987). This collection contains translations of papers on propositional satisfiability and related logical problems. The papers related to Maslov's iterative method of search reduction play a significant role.


Proceedings of the St. Petersburg Mathematical Society, Volume VIII-N.N. Uraltseva 2002-04-02 The articles in this collection present new results in partial differential equations, numerical analysis, probability theory, and geometry. The results, ideas, and methods given in the book will be of interest to a broad range of specialists.

Thirteen Papers on Algebra and Analysis-Geng Ji 1968
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