

**Encyclopedia of
Mathematical Sciences**

Volume 4: 1992

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**Commutative
Harmonic
Analysis
IV**



Springer-Verlag

Commutative Harmonic Analysis Iv

V.P. Khavin, N.K. Nikol'skii



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Commutative Harmonic Analysis IV V.P. Khavin, N.K. Nikol'skii, 2013-04-17 With the groundwork laid in the first volume EMS 15 of the Commutative Harmonic Analysis subseries of the Encyclopaedia the present volume takes up four advanced topics in the subject Littlewood Paley theory for singular integrals exceptional sets multiple Fourier series and multiple Fourier integrals

Commutative Harmonic Analysis I V.P. Khavin, N.K. Nikol'skii, 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

Dynamical Systems IX D.V. Anosov, 2013-03-14 This volume is devoted to the hyperbolic theory of dynamical systems DS that is the theory of smooth DS s with hyperbolic behaviour of the trajectories generally speaking not the individual trajectories but trajectories filling out more or less significant subsets in the phase space Hyperbolicity the property that under a small displacement of any of a trajectory consists in point of it to one side of the trajectory the change with time of the relative positions of the original and displaced points resulting from the action of the DS is reminiscent of the motion next to a saddle If there are sufficiently many such trajectories and the phase space is compact then although they tend to diverge from one another as it were they have nowhere to go and their behaviour acquires a complicated intricate character In the physical literature one often talks about chaos in such situations This type of behaviour would appear to be the opposite of the more customary and simple type of behaviour characterized by its own kind of stability and regularity of the motions these words are for the moment not being used as a strict terminology but rather as descriptive informal terms The ergodic properties of DS s with hyperbolic behaviour of trajectories Bunimovich et al 1985 have already been considered in Volume 2 of this series In this volume we therefore consider mainly the properties of a topological character see below 2 for further details

Linear and Complex Analysis Alexei Alexandrov, Anton Baranov, Sergey Kislyakov, *Partial Differential Equations VIII* M.A. Shubin, 2012-12-06 This volume of the EMS contains three articles on linear overdetermined

systems of partial differential equations dissipative Schroedinger operators and index theorems Each article presents a comprehensive survey of its subject discussing fundamental results such as the construction of compatibility operators and complexes for elliptic parabolic and hyperbolic coercive problems the method of functional models and the Atiyah Singer index theorem and its generalisations Both classical and recent results are explained in detail and illustrated by means of examples

Algebraic Geometry II I.R. Shafarevich, 2013-11-22 This EMS volume consists of two parts The first part is devoted to the exposition of the cohomology theory of algebraic varieties The second part deals with algebraic surfaces The authors have taken pains to present the material rigorously and coherently The book contains numerous examples and insights on various topics This book will be immensely useful to mathematicians and graduate students working in algebraic geometry arithmetic algebraic geometry complex analysis and related fields The authors are well known experts in the field and I R Shafarevich is also known for being the author of volume 11 of the Encyclopaedia

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

50 Years with Hardy Spaces Anton Baranov, Sergei Kisliakov, Nikolai Nikolski, 2018-03-28 Written in honor of Victor Havin 1933 2015 this volume presents a collection of surveys and original papers on harmonic and complex analysis function spaces and related topics authored by internationally recognized experts in the fields It also features an illustrated scientific biography of Victor Havin one of the leading analysts of the second half of the 20th century and founder of the Saint Petersburg Analysis Seminar A complete list of his publications as well as his public speech Mathematics as a source of certainty and uncertainty presented at the Doctor Honoris Causa ceremony at Linköping University are also included

Partial Differential Equations III Egorov, Yurii Vladimirovich Egorov, Mikhail Aleksandrovich Shubin, 1991 Two general

questions regarding partial differential equations are explored in detail in this volume of the Encyclopaedia The first is the Cauchy problem and its attendant question of well posedness or correctness The authors address this question in the context of PDEs with constant coefficients and more general convolution equations in the first two chapters The third chapter extends a number of these results to equations with variable coefficients The second topic is the qualitative theory of second order linear PDEs in particular elliptic and parabolic equations Thus the second part of the book is primarily a look at the behavior of solutions of these equations There are versions of the maximum principle the Phragmen Lindel f theorem and Harnack s inequality discussed for both elliptic and parabolic equations The book is intended for readers who are already familiar with the basic material in the theory of partial differential equations

Partial Differential Equations III Mikhail Aleksandrovich Shubin,1991 **Mathematical Reviews** ,2001 **Functional Differential Equations and Bifurcation** A. F. Izé,1980 *Robust Statistical Methods* William J. J. Rey,1978 **Local Operators and Markov Processes** Lucretiu Stoica,1980 Complex Analysis. Joensuu 1978 I. Laine,O. Lehto,T. Sorvali,1979-10 Romanian Finnish Seminar on Complex Analysis **Categorical Aspects of Topology and Analysis** B. Banaschewski,1982-03 **Revista de la Unión Matemática Argentina** Unión Matemática Argentina,1988 **Special Functions, Probability Semigroups, and Hamiltonian Flows** P. J. Feinsilver,1978-12-05 **Homotopy Equivalences of 3-Manifolds with Boundaries** K. Johansson,1979-11 **Quadratic Forms Over Semilocal Rings** Ricardo Baeza,1978

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