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this volume contains the proceedings of the conference on harmonic analysis and related areas the conference provided an opportunity for researchers and students to exchange ideas and report on progress in this large and central field of modern mathematics the volume is suitable for graduate students and research mathematicians interested in harmonic analysis and related areas

this volume contains the proceedings of the ams ems smf special session on sub riemannian geometry and interactions held from july 18 20 2022 at the universit  de grenoble alpes grenoble france sub riemannian geometry is a generalization of riemannian one where a smooth metric is defined only on a preferred subset of tangent directions under the so called h rmander condition all points are connected by finite length curves giving rise to a well defined metric space sub riemannian geometry is nowadays a lively branch of mathematics connected with probability harmonic and complex analysis subelliptic pdes geometric measure theory optimal transport calculus of variations and potential analysis the articles in this volume present some developments of a broad range of topics in sub riemannian geometry including the theory of sub elliptic operators holonomy spectral theory and the geometry of the exponential map

h rmander operators are a class of linear second order partial differential operators with nonnegative characteristic form and smooth coefficients which are usually degenerate elliptic parabolic but nevertheless hypoelliptic that is highly regularizing the study of these operators began with the 1967 fundamental paper by lars h rmander and is intimately connected to the geometry of vector fields motivations for the study of h rmander operators come for instance from kolmogorov fokker planck equations arising from modeling physical systems governed by stochastic equations and the geometric theory of several complex variables the aim of this book is to give a systematic exposition of a relevant part of the theory of h rmander operators and vector fields together with the necessary background and prerequisites the book is intended for self study or as a reference book and can be useful to both younger and senior researchers already working in this area or aiming to approach it

this book is devoted to the mathematical foundation of boundary integral equations the combination of finite element analysis on the boundary with these equations has led to very efficient computational tools the boundary element methods see e g the authors 139 and schanz and steinbach eds 267 although we do not deal with the boundary element discretizations in this book the material presented here gives the mathematical foundation of these methods in order to avoid over generalization we have confined ourselves to the treatment of elliptic boundary value problems the central idea of eliminating the field equations in the domain and reducing boundary value problems to equivalent equations only on the boundary requires the knowledge of corresponding fundamental solutions and this idea has a long history dating back to the work of green 107 and gauss 95 96 today the resulting boundary integral equations still serve as a major tool for the analysis and construction of solutions to boundary value problems

this book is a comprehensive introduction to the mathematical theory of vorticity and incompressible flow ranging from elementary introductory material to current research topics while the contents center on mathematical theory many parts of the book showcase the interaction between rigorous mathematical theory numerical asymptotic and qualitative simplified modeling and physical phenomena the first half forms an introductory graduate course on vorticity and incompressible flow the second half comprise a

modern applied mathematics graduate course on the weak solution theory for incompressible flow

this book provides a descriptive account of mischa cotlar s work along with a complete bibliography of his mathematical books and papers it examines the harmonic analysis and operator theory in relation with the theory of partial differential equations

beginning graduate students in mathematics and other quantitative subjects are expected to have a daunting breadth of mathematical knowledge but few have such a background this book will help students to see the broad outline of mathematics and to fill in the gaps in their knowledge the author explains the basic points and a few key results of all the most important undergraduate topics in mathematics emphasizing the intuitions behind the subject the topics include linear algebra vector calculus differential geometry real analysis point set topology probability complex analysis abstract algebra and more an annotated bibliography then offers a guide to further reading and to more rigorous foundations this book will be an essential resource for advanced undergraduate and beginning graduate students in mathematics the physical sciences engineering computer science statistics and economics who need to quickly learn some serious mathematics

contains the material formerly published in even numbered issues of the bulletin of the american mathematical society

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