

OXFORD MATHEMATICAL MONOGRAPHS

Arithmetical Similarities

Prime Decomposition and
Finite Group Theory

NORBET KLINGEN



OXFORD SCIENCE PUBLICATIONS

Arithmetical Similarities Prime Decomposition And Finite Group Theory

Norbert Klingen



Arithmetical Similarities Prime Decomposition And Finite Group Theory:

Arithmetical Similarities Norbert Klingen, 1998 This book deals with the characterization of extensions of number fields in terms of the decomposition of prime ideals and with the group theoretic questions arising from this number theoretic problem One special aspect of this question is the equality of Dedekind zeta functions of different number fields This is an established problem which was solved for abelian extensions by class field theory but which was only studied in detail in its general form from around 1970 The basis for the new results was a fruitful exchange between number theory and group theory Some of the outstanding results are based on the complete classification of all finite simple groups This book reports on the great progress achieved in this period It allows access to the new developments in this part of algebraic number theory and contains a unique blend of number theory and group theory The results appear for the first time in a monograph and they partially extend the published literature

Thermoelasticity with Finite Wave Speeds Józef Ignaczak, Martin Ostoja-Starzewski, 2010 A unique monograph in a fast developing field of generalized thermoelasticity an area of active research in continuum mechanics focusing on thermoelasticity governed by hyperbolic equations rather than on a wide range of continuum theories

The Mathematical Theory of Thermodynamic Limits Isabelle Catto, Claude Le Bris, Pierre-Louis Lions, 1998 The thermodynamic limit is a mathematical technique which allows us to consider crystals or other macroscopic objects as infinitely sized periodically arranged molecules This means that we can derive models in solid state physics from models in quantum chemistry Based on this technique the book presents established as well as new mathematical results for a large class of models in quantum chemistry

Spectral Theory and Differential Operators David Eric Edmunds, W. D. Evans, 2018 This book is an updated version of the classic 1987 monograph Spectral Theory and Differential Operators The original book was a cutting edge account of the theory of bounded and closed linear operators in Banach and Hilbert spaces relevant to spectral problems involving differential equations It is accessible to a graduate student as well as meeting the needs of seasoned researchers in mathematics and mathematical physics This revised edition corrects various errors and adds extensive notes to the end of each chapter which describe the considerable progress that has been made on the topic in the last 30 years

Special Functions Sergei I. Uvarov, Wolfgang Lay, 2000 The subject of this book is the theory of special functions not considered as a list of functions exhibiting a certain range of properties but based on the unified study of singularities of second order ordinary differential equations in the complex domain The number and characteristics of the singularities serve as a basis for classification of each individual special function Links between linear special functions as solutions of linear second order equations and non linear special functions as solutions of Painlevé equations are presented as a basic and new result Many applications to different areas of physics are shown and discussed The book is written from a practical point of view and will address all those scientists whose work involves applications of mathematical methods Lecturers graduate students and researchers will find this a valuable text and reference work

The

Feynman Integral and Feynman's Operational Calculus, 2000-03-16 The aim of this book is to make accessible to mathematicians physicists and other scientists interested in quantum theory the beautiful but mathematically difficult subjects of the Feynman integral and Feynman's operational calculus Some advantages of the approaches to the Feynman integral which are treated in detail in this book are the following the existence of the Feynman integral is established for very general potentials in all four cases under more restrictive but still broad conditions three of these Feynman integrals agree with one another and with the unitary group from the usual approach to quantum dynamics these same three Feynman integrals possess pleasant stability properties Much of the material covered here was previously available only in the research literature and the book also contains some new results The background material in mathematics and physics that motivates the study of the Feynman integral and Feynman's operational calculus is discussed and detailed proofs are provided for the central results

System Control and Rough Paths Terry Lyons, Zhongmin Qian, 2002-12-19 This book describes a completely novel mathematical development which has already influenced probability theory and has potential for application to engineering and to areas of pure mathematics Intended for probabilists mathematicians and engineers with a mathematical background from graduate level onwards this book develops the evolution of complex non linear systems subject to rough or rapidly fluctuating stimuli Attention is focussed on an analysis of the relationship between the stimulus or control and the short to medium term evolution of a receiver the response of the system A rapidly fluctuating stimuli can be likened to a huge dataset and a basic question is how best to reduce this dataset so as to capture the critical information and little else An essential component problem involves identifying the point at which two different stimuli produce essentially the same response from the class of receivers When do two stereo sounds sound the same This is an essentially non linear problem that requires novel mathematics At one level this book focuses on systems responding to such rough external stimuli and demonstrates that the natural reduction approximates the stimuli as a sequence of nilpotent elements The core result of the book is a continuity theorem that proves that the response of the system depends continuously on these nilpotent elements A key mathematical aspect of the book is the notion of a rough path based on combining the notion of p variation of Wiener with the iterated integral expansions of paths introduced by K T Chen The continuity theorem for these rough paths gives a new way to construct solutions to stochastic differential equations providing a fresh approach to the It theory but also allowing new kinds of noisy perturbations such as Fractional Brownian Motions that cannot be discussed in the standard It approach It also provides some interesting concrete examples of continuous free groups

The Universality of the Radon Transform Leon Ehrenpreis, 2003-10-02 Written by a leading scholar in mathematics this monograph discusses the Radon transform a field that has wide ranging applications to X ray technology partial differential equations nuclear magnetic resonance scanning and tomography In this book Ehrenpreis focuses on recent research and highlights the strong relationship between high level pure mathematics and applications of the Radon transform to areas such as medical imaging

The first part of the book discusses parametric and nonparametric Radon transforms Harmonic Functions and Radon transform on Algebraic Varieties nonlinear Radon and Fourier transforms Radon transform on groups and Radon transform as the interrelation of geometry and analysis The later parts discuss the extension of solutions of differential equations Periods of Eisenstein and Poincaré and some problems of integral geometry arising in tomography Examples and proofs are provided throughout the book to aid the reader's understanding This is the latest title in the Oxford Mathematical Monographs which includes texts and monographs covering many topics of current research interest in pure and applied mathematics Other titles include Carbone and Semmes A graphic apology for symmetry and implicitness Higson and Roe Analytic K Homology Iwaniec and Martin Geometric Function Theory and Nonlinear Analysis Lyons and Qian System Control and Rough Paths Also new in paperback Johnson and Lapidus The Feynman Integral and Feynman's Operational Calculus Donaldson and Kronheimer The geometry of four manifolds

Triple Systems Charles J. Colbourn, Alexander Rosa, 1999 Triple systems are among the simplest combinatorial designs and are a natural generalization of graphs They have connections with geometry algebra group theory finite fields and cyclotomy they have applications in coding theory cryptography computer science and statistics Triple systems provide in many cases the prototype for deep results in combinatorial design theory this design theory is permeated by problems that were first understood in the context of triple systems and then generalized Such a rich set of connections has made the study of triple systems an extensive but sometimes disjointed field of combinatorics This book attempts to survey current knowledge on the subject to gather together common themes and to provide an accurate portrait of the huge variety of problems and results Representative samples of the major styles of proof technique are included as is a comprehensive bibliography

A Graphic Apology for Symmetry and Implicitness Alessandra Carbone, Stephen Semmes, 2000 This book brings into focus the contrast between explicit and implicit algorithmic descriptions of objects and presents a new geometric language for the study of combinatorial and logical problems in complexity theory These themes are considered in a variety of settings sometimes crossing traditional boundaries Special emphasis is given to moderate complexity exponential or polynomial but objects with multi exponential complexity also fit in Among the items under consideration are graphs formal proofs languages automata groups circuits some connections with geometry of metric spaces and complexity classes P NP $co\ NP$

Some Novel Types of Fractal Geometry Stephen Semmes, 2001 The present book deals with fractal geometries which have features similar to ones of ordinary Euclidean spaces while at the same time being quite different from Euclidean spaces in other ways A basic type of feature being considered is the presence of Sobolev or Poincaré inequalities concerning the relationship between the average behaviour of a function and the average behaviour of its small scale oscillations Remarkable results in the last few years of Bourdon Pajot and Laakso have shown that there is much more in the way of geometries like this than has been realized Examples related to nilpotent Lie groups and Carnot metrics were known previously On the other hand typical fractals that

might be seen in pictures do not have these same kinds of features Some Novel Types of Fractal Geometry will be of interest to graduate students and researchers in mathematics working in various aspects of geometry and analysis **Classical and**

Modern Methods in Summability Johann Boos, 2000 Summability is a mathematical topic with a long tradition and many applications in for example function theory number theory and stochastics It was originally based on classical analytical methods but was strongly influenced by modern functional analytical methods during the last seven decades The present book aims to introduce the reader to the wide field of summability and its applications and provides an overview of the most important classical and modern methods used Part I contains a short general introduction to summability the basic classical theory concerning mainly inclusion theorems and theorems of the Silverman Toeplitz type a presentation of the most important classes of summability methods Tauberian theorems and applications of matrix methods The proofs in Part I are exclusively done by applying classical analytical methods Part II is concerned with modern functional analytical methods in summability and contains the essential functional analytical basis required in later parts of the book topologization of sequence spaces as K and KF spaces domains of matrix methods as FK spaces and their topological structure In this part the proofs are of functional analytical nature only Part III of the present book deals with topics in summability and topological sequence spaces which require the combination of classical and modern methods It covers investigations of the consistency of matrix methods and of the bounded domain of matrix methods via Saks space theory and the presentation of some aspects in topological sequence spaces Lecturers graduate students and researchers working in summability and related topics will find this book a useful introduction and reference work *Compact Manifolds with Special Holonomy* Dominic D.

Joyce, 2000 This is a combination of a graduate textbook on Riemannian holonomy groups and a research monograph on compact manifolds with the exceptional holonomy groups G_2 and $Spin(7)$ It contains much new research and many new examples Low Frequency Scattering George Dassios, Ralph Kleinman, 2000 Scattering theory deals with the interactions of waves with obstacles in their path and low frequency scattering occurs when the obstacles involved are very small This book gives an overview of the subject for graduates and researchers for the first time unifying the theories covering acoustic electromagnetic and elastic waves **Asymptotic Analysis of Fields in Multi-structures** Vladimir Kozlov, V. G.

Maz'ya, V. G. Maz'ya, Alexander B. Movchan, 1999 This book outlines a powerful new method in analysis which has already been instrumental in solving complicated partial differential equations arising in various areas of engineering It is suitable for those working with partial differential equations and their applications and an undergraduate knowledge of PDEs and functional analysis is assumed *Symmetric Functions and Hall Polynomials* Ian Grant Macdonald, 1998 This is a paperback version of the second much expanded edition of Professor Macdonald's acclaimed monograph on symmetric functions and Hall polynomials Almost every chapter has new sections and new examples have been included throughout Extra material in the appendix to Chapter 1 for example includes an account of the related theory of polynomial representations of the general

linear groups always in characteristic zero Chapters 6 and 7 are new to the second edition Chapter 6 contains an extended account of a family of symmetric functions depending rationally on two parameters These symmetric functions include as particular cases many of those encountered earlier in the book but they also include as a limiting case Jack's symmetric functions depending on a parameter Many of the properties of the Schur functions generalize to these two parameter symmetric functions but the proofs at present are usually more elaborate Chapter 7 is devoted to the study of the zonal polynomials long familiar to statisticians From one point of view they are a special case of Jack's symmetric functions the parameter being equal to 2 but their combinatorial and group theoretic connections make them worthy of study in their own right From reviews of the first edition Despite the amount of material of such great potential interest to mathematicians the theory of symmetric functions remains all but unknown to the persons it is most likely to benefit Hopefully this beautifully written book will put an end to this state of affairs I have no doubt that this book will become the definitive reference on symmetric functions and their applications Bulletin of the AMS In addition to providing a self contained and coherent account of well known and classical work there is a great deal which is original The book is dotted with gems both old and new It is a substantial and valuable volume and will be regarded as the authoritative source which has been long awaited in this subject LMS book reviews From reviews of the second edition Evidently this second edition will be the source and reference book for symmetric functions in the near future Zbl Math

Introduction to Symplectic Topology Dusa McDuff, Dietmar

Salamon, 1998 This first edition of this book quickly became an established text in this fast developing branch of mathematics This second edition has been significantly revised and expanded It includes a section on new developments and an expanded discussion of Taubes and Donaldson's recent results

Nonlinear Waves in Elastic Crystals Gérard A. Maugin, 1999

The mathematical modelling of changing structures in materials is of increasing importance to industry where applications of the theory are found in subjects as diverse as aerospace and medicine This book deals with aspects of the nonlinear dynamics of deformable ordered solids known as elastic crystals where the nonlinear effects combine or compete with each other Physical and mathematical models are discussed and computational aspects are also included Different models are considered on discrete as well as continuum scales applying heat electricity or magnetism to the crystal structure and these are analysed using the equations of rational mechanics In this way the student is introduced to the important equations of nonlinear science that describe shock waves solitons and chaos and also the non exactly integrable systems or partial differential equations A large number of problems and examples are included many taken from recent research and involving both one dimensional and two dimensional problems as well as some coupled degrees of freedom

Complex Hyperbolic Geometry

William Mark Goldman, 1999 Complex hyperbolic geometry is a particularly rich area of study enhanced by the confluence of several areas of research including Riemannian geometry complex analysis symplectic and contact geometry Lie group theory and harmonic analysis The boundary of complex hyperbolic geometry known as spherical CR or Heisenberg geometry

is equally rich and although there exist accounts of analysis in such spaces there is currently no account of their geometry. This book redresses the balance and provides an overview of the geometry of both the complex hyperbolic space and its boundary. Motivated by applications of the theory to geometric structures, moduli spaces and discrete groups, it is designed to provide an introduction to this fascinating and important area and invite further research and development. Geometric Function Theory and Non-linear Analysis Tadeusz Iwaniec, Gaven Martin, 2001. This unique book explores the connections between the geometry of mappings and many important areas of modern mathematics such as Harmonic and non linear Analysis, the theory of Partial Differential Equations, Conformal Geometry and Topology. Much of the book is new. It aims to provide students and researchers in many areas with a comprehensive and up to date account and an overview of the subject as a whole.

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