

MATHEMATICAL Surveys and Monographs

Volume 37

Structural Properties of Polylogarithms

Leonard Lewin
Editor



American Mathematical Society

Structural Properties Of Polylogarithms

American Mathematical Society

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Structural Properties Of Polylogarithms:

Structural Properties of Polylogarithms Leonard Lewin, 1991 About ten years ago the handful of peculiar numerical diarithmic identities known since the time of Euler and Landen gave rise to new discoveries concerning cyclotomic equations and related polylogarithmic ladders These discoveries were made mostly by the methods of classical analysis with help from machine computation About the same time starting with Bloch s studies on the application of the dilogarithm in algebraic K theory and algebraic geometry many important discoveries were made in diverse areas This book seeks to provide a synthesis of these two streams of thought In addition to an account of ladders and their association with functional equations the chapters include applications to volume calculations in Lobatchevsky geometry relations to partition theory connections with Clausen s function new functional equations and applications to K theory and other branches of abstract algebra This rapidly expanding field is brought up to date with two appendices and the book concludes with an extensive bibliography of recent publications About two thirds of the material is accessible to mathematicians and scientists in many areas while the remainder requires more specialized background in abstract algebra

Structural Properties of Polylogarithms Leonard Lewin, 2014-06-06 About ten years ago the handful of peculiar numerical diarithmic identities known since the time of Euler and Landen gave rise to new discoveries concerning cyclotomic equations and related polylogarithmic ladders These discoveries were made mostly by the methods of classical analysis with help from machine computation About the same time starting with Bloch s studies on the application of the dilogarithm in algebraic K theory and algebraic geometry many important discoveries were made in diverse areas This book seeks to provide a synthesis of these two streams of thought In addition to an account of ladders and their association with functional equations the chapters include applications to volume calculations in Lobatchevsky geometry relations to partition theory connections with Clausen s function new functional equations and applications to K theory and other branches of abstract algebra This rapidly expanding field is brought up to date with two appendices and the book concludes with an extensive bibliography of recent publications

Multiple Zeta Functions, Multiple Polylogarithms And Their Special Values Jianqiang Zhao, 2016-03-07 This is the first introductory book on multiple zeta functions and multiple polylogarithms which are the generalizations of the Riemann zeta function and the classical polylogarithms respectively to the multiple variable setting It contains all the basic concepts and the important properties of these functions and their special values This book is aimed at graduate students mathematicians and physicists who are interested in this current active area of research The book will provide a detailed and comprehensive introduction to these objects their fascinating properties and interesting relations to other mathematical subjects and various generalizations such as their q analogs and their finite versions by taking partial sums modulo suitable prime powers Historical notes and exercises are provided at the end of each chapter

CRC Concise Encyclopedia of Mathematics Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise

Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d *Algebraic K-Theory* Grzegorz Banaszak,1996 This book contains proceedings of the research conference on algebraic K theory which took place in Poznan Poland in September 1995 The conference concluded the activity of the algebraic K theory seminar held at the Adam Mickiewicz University in the academic year 1994 1995 Talks at the conference covered a wide range of current research activities in algebraic K theory In particular the following topics were covered K theory of fields and rings of integers K theory of elliptic and modular curves Theory of motives motivic cohomology Beilinson conjectures algebraic K theory of topological spaces topological Hochschild homology and cyclic homology With contributions by leading experts in the field this book provides a look at the state of current research in algebraic K theory

Motives Uwe Jannsen,Jean-pierre Serre,Steven Kleiman,1994-02-28 Motives were introduced in the mid 1960s by Grothendieck to explain the analogies among the various cohomology theories for algebraic varieties to play the role of the missing rational cohomology and to provide a blueprint for proving Weil s conjectures about the zeta function of a variety over a finite field Over the last ten years or so researchers in various areas Hodge theory algebraic K theory polylogarithms automorphic forms L functions ell adic representations trigonometric sums and algebraic cycles have discovered that an enlarged and in part conjectural theory of mixed motives indicates and explains phenomena appearing in each area Thus the theory holds the potential of enriching and unifying these areas These two volumes contain the revised texts of nearly all the lectures presented at the AMS IMS SIAM Joint Summer Research Conference on Motives held in Seattle in 1991 A number of related works are also included making for a total of forty seven papers from general introductions to specialized surveys to research papers

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Mathematical Reviews ,2005 *Notices of the American Mathematical Society* American Mathematical Society,1994 **Nagoya Mathematical Journal** ,2004 *Number Theory for the Millennium II* Michael A. Bennett,2002-05-09 Building on the tradition of an outstanding series of conferences at the University of Illinois at

Urbana Champaign the organizers attracted an international group of scholars to open the new Millennium with a conference that reviewed the current state of number theory research and pointed to future directions in the field The conference was the largest general number theory conference in recent history featuring a total of 159 talks with the plenary lectures given by George Andrews Jean Bourgain Kevin Ford Ron Graham Andrew Granville Roger Heath Brown Christopher Hooley Winnie Li Kumar Murty Mel Nathanson Ken Ono Carl Pomerance Bjorn Poonen Wolfgang Schmidt Chris Skinner K Soundararajan Robert Tijdeman Robert Vaughan and Hugh Williams The Proceedings Volumes of the conference review some of the major number theory achievements of this century and to chart some of the directions in which the subject will be heading during the new century These volumes will serve as a useful reference to researchers in the area and an introduction to topics of current interest in number theory for a general audience in mathematics

Combined Membership List of the American Mathematical Society and the Mathematical Association of America American Mathematical Society, 1991
 Lists for 19 include the Mathematical Association of America and 1955 also the Society for Industrial and Applied Mathematics *Abstracts of Papers Presented to the American Mathematical Society* American Mathematical Society, 2006

Realizations of Polylogarithms Jörg Wildeshaus, 1997-02-20 Classically higher logarithms appear as multivalued functions on the projective line Today they can be interpreted as entries of the period matrix of a certain variation of Hodge structure itself called the polylogarithm The aim of the book is to document the sheaf theoretical foundations of the field of polylogarithms Earlier partly unpublished results and constructions of Beilinson Deligne and Levin on the classical and elliptic polylog are generalized to the context of Shimura varieties The reader is expected to have a sound background in algebraic geometry Large parts of the book are expository and intended as a reference for the working mathematician Where a self contained exposition was not possible the author gives references in order to make the material accessible for advanced graduate students

Algebraic Number Theory and Related Topics 2008 2008, 2010 *New Technical Books* New York Public Library, 1992

First European Congress of Mathematics Paris, July 6-10, 1992 Anthony Joseph, Fulbert Mignot, Francois Murat, Bernard Prum, Rudolf Rentschler, 1994-07 Table of Contents D Duffie Martingales Arbitrage and Portfolio Choice J Fr hlich Mathematical Aspects of the Quantum Hall Effect M Giaquinta Analytic and Geometric Aspects of Variational Problems for Vector Valued Mappings U Hamenst dt Harmonic Measures for Leafwise Elliptic Operators Along Foliations M Kontsevich Feynman Diagrams and Low Dimensional Topology S B Kuksin KAM Theory for Partial Differential Equations M Laczkovich Paradoxical Decompositions A Survey of Recent Results J F Le Gall A Path Valued Markov Process and its Connections with Partial Differential Equations I Madsen The Cyclotomic Trace in Algebraic K Theory A S Merkurjev Algebraic K Theory and Galois Cohomology J Nekov r Values of L Functions and p Adic Cohomology Y A Neretin Mantles Trains and Representations of Infinite Dimensional Groups M A Nowak The Evolutionary Dynamics of HIV Infections R Piene On the Enumeration of Algebraic Curves from Circles to Instantons A Quarteroni Mathematical Aspects of

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Classification of the Finite Simple Groups Daniel Gorenstein, Richard Lyons, Ronald Solomon, 1994 The classification of the finite simple groups is one of the major feats of contemporary mathematical research but its proof has never been completely extricated from the journal literature in which it first appeared This book serves as an introduction to a series devoted to organizing and simplifying the proof The purpose of the series is to present as direct and coherent a proof as is possible with existing techniques This first volume which sets up the structure for the entire series begins with largely informal discussions of the relationship between the Classification Theorem and the general structure of finite groups as well as the general strategy to be followed in the series and a comparison with the original proof Also listed are background results from the literature that will be used in subsequent volumes Next the authors formally present the structure of the proof and the plan for the series of volumes in the form of two grids giving the main case division of the proof as well as the principal milestones in the analysis of each case Thumbnail sketches are given of the ten or so principal methods underlying the proof Whitaker's Books in Print ,1998 The Cumulative Book Index ,1992 A world list of books in the English language

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