Tsuneo Arakawa
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Bernoulli Numbers and Zeta Functions

Bernoulli Numbers And Zeta Functions Springer Monographs In Mathematics

Jianqiang Zhao

Bernoulli Numbers And Zeta Functions Springer Monographs In Mathematics:

Bernoulli Numbers and Zeta Functions Tsuneo Arakawa,Tomoyoshi Ibukiyama,Masanobu Kaneko,2014-07-11 Two major subjects are treated in this book The main one is the theory of Bernoulli numbers and the other is the theory of zeta functions Historically Bernoulli numbers were introduced to give formulas for the sums of powers of consecutive integers The real reason that they are indispensable for number theory however lies in the fact that special values of the Riemann zeta function can be written by using Bernoulli numbers This leads to more advanced topics a number of which are treated in this book Historical remarks on Bernoulli numbers and the formula for the sum of powers of consecutive integers a formula for Bernoulli numbers by Stirling numbers the Clausen von Staudt theorem on the denominators of Bernoulli numbers Kummer s congruence between Bernoulli numbers and a related theory of p adic measures the Euler Maclaurin summation formula the functional equation of the Riemann zeta function and the Dirichlet L functions and their special values at suitable integers various formulas of exponential sums expressed by generalized Bernoulli numbers the relation between ideal classes of orders of quadratic fields and equivalence classes of binary quadratic forms class number formula for positive definite binary quadratic forms congruences between some class numbers and Bernoulli numbers simple zeta functions of prehomogeneous vector spaces Hurwitz numbers Barnes multiple zeta functions and their special values the functional equation of the doub le zeta functions and poly Bernoulli numbers An appendix by Don Zagier on curious and exotic identities for Bernoulli numbers is also supplied This book will be enjoyable both for amateurs and for professional researchers Because the logical relations between the chapters are loosely connected readers can start with any chapter depending on their interests The expositions of the topics are not always typical and some parts are completely new **The Theory of Zeta-Functions of Root Systems** Yasushi Komori,Kohji Matsumoto,Hirofumi Tsumura,2024-01-02 The contents of this book was created by the authors as a simultaneous generalization of Witten zeta functions Mordell Tornheim multiple zeta functions and Euler Zagier multiple zeta functions Zeta functions of root systems are defined by certain multiple series given in terms of root systems Therefore they intrinsically have the action of associated Weyl groups The exposition begins with a brief introduction to the theory of Lie algebras and root systems and then provides the definition of zeta functions of root systems explicit examples associated with various simple Lie algebras meromorphic continuation and recursive analytic structure described by Dynkin diagrams special values at integer points functional relations and the background given by the action of Weyl groups In particular an explicit form of Witten s volume formula is provided It is shown that various relations among special values of Euler Zagier multiple zeta functions which usually are called multiple zeta values MZVs and are quite important in connection with Zagier s conjecture are just special cases of various functional relations among zeta functions of root systems The authors further provide other applications to the theory of MZVs and also introduce generalizations with Dirichlet characters and with certain congruence conditions The book concludes with a brief description of other relevant

topics **From Arithmetic to Zeta-Functions** Jürgen Sander,Jörn Steuding,Rasa Steuding,2016-12-29 This book collects more than thirty contributions in memory of Wolfgang Schwarz most of which were presented at the seventh International Conference on Elementary and Analytic Number Theory ELAZ held July 2014 in Hildesheim Germany Ranging from the theory of arithmetical functions to diophantine problems to analytic aspects of zeta functions the various research and survey articles cover the broad interests of the well known number theorist and cherished colleague Wolfgang Schwarz 1934 2013 who contributed over one hundred articles on number theory its history and related fields Readers interested in elementary or analytic number theory and related fields will certainly find many fascinating topical results among the contributions from both respected mathematicians and up and coming young researchers In addition some biographical articles highlight the life and mathematical works of Wolfgang Schwarz **Analytic Methods In Number Theory: When Complex Numbers Count** Wadim Zudilin,2023-08-22 There is no surprise that arithmetic properties of integral whole numbers are controlled by analytic functions of complex variable At the same time the values of analytic functions themselves happen to be interesting numbers for which we often seek explicit expressions in terms of other better known numbers or try to prove that no such exist This natural symbiosis of number theory and analysis is centuries old but keeps enjoying new results ideas and methods The present book takes a semi systematic review of analytic achievements in number theory ranging from classical themes about primes continued fractions transcendence of and resolution of Hilbert s seventh problem to some recent developments on the irrationality of the values of Riemann s zeta function sizes of non cyclotomic algebraic integers and applications of hypergeometric functions to integer congruences Our principal goal is to present a variety of different analytic techniques that are used in number theory at a reasonably accessible almost popular level so that the materials from this book can suit for teaching a graduate course on the topic or for a self study Exercises included are of varying difficulty and of varying distribution within the book some chapters get more than other they not only help the reader to consolidate their understanding of the material but also suggest directions for further study and investigation Furthermore the end of each chapter features brief notes about relevant developments of the themes discussed 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 **Theory of Periodic Conjugate Heat Transfer** Yuri B.

Zudin,2023-03-24 An original method of investigation of the conjugate conductive convective problem of periodic heat transfer is developed The novelty of the approach is that a particular conjugate problem is replaced by a general boundary value problem for the heat conduction equation in the solid Within the framework of the hyperbolic model of thermal conductivity the effect of self reinforcement of the degree of conjugation by increasing the period of oscillations is found The processes of hydrodynamics and heat exchange with periodic internal structure are considered periodic model of turbulent heat transfer hydrodynamic instability bubbles dynamics in liquid and model of evaporating meniscus The book is intended as a source and reference work for researchers and graduate students interested in the field of conjugate heat transfer

More (Almost) Impossible Integrals, Sums, and Series Cornel Ioan Vălean,2023-05-24 This book the much anticipated sequel to Almost Impossible Integrals Sums and Series presents a whole new collection of challenging problems and solutions that are not commonly found in classical textbooks As in the author s previous book these fascinating mathematical problems are shown in new and engaging ways and illustrate the connections between integrals sums and series many of which involve zeta functions harmonic series polylogarithms and various other special functions and constants Throughout the book the reader will find both classical and new problems with numerous original problems and solutions coming from the personal research of the author Classical problems are shown in a fresh light with new surprising or unconventional ways of obtaining the desired results devised by the author This book is accessible to readers with a good knowledge of calculus from undergraduate students to researchers It will appeal to all mathematical puzzlers who love a good integral or series and aren t afraid of a challenge **The Story of Algebraic Numbers in the First Half of the 20th Century** Władysław Narkiewicz,2019-01-18 The book is aimed at people working in number theory or at least interested in this part of mathematics It presents the development of the theory of algebraic numbers up to the year 1950 and contains a rather complete bibliography of that period The reader will get information about results obtained before 1950 It is hoped that this may be helpful in preventing rediscoveries of old results and might also inspire the reader to look at the work done earlier which may hide some ideas which could be applied in contemporary research Fractal Geometry, Complex Dimensions and Zeta Functions Michel L. Lapidus,Machiel van Frankenhuijsen,2012-09-20 Number theory spectral geometry and fractal geometry are interlinked in this in depth study of the vibrations of fractal strings that is one dimensional drums with fractal boundary Key Features of this Second Edition The Riemann hypothesis is given a natural geometric reformulation in the context of vibrating fractal strings Complex dimensions of a fractal string defined as the poles of an associated zeta function are studied in detail then used to understand the oscillations intrinsic to the corresponding fractal geometries and frequency spectra Explicit formulas are extended to apply to the geometric spectral and dynamical zeta functions associated with a fractal Examples of such explicit formulas include a Prime Orbit Theorem with error term for self similar flows and a geometric tube formula The method of Diophantine approximation is used to study self similar strings and

flows Analytical and geometric methodsare used to obtain new results about the vertical distribution of zeros of number theoretic and other zeta functions Throughout new results are examined and a new definition of fractality as the presence of nonreal complex dimensions with positive real parts is presented The new final chapter discusses several new topics and results obtained since the publication of the first edition The significant studies and problems illuminated in this work may be used in a classroom setting at the graduate level Fractal Geometry Complex Dimensions and Zeta Functions Second Edition will appeal to students and researchers in number theory fractal geometry dynamical systems spectral geometry and mathematical physics *Journal of the Korean Mathematical Society* ,2007 Zeta and q-Zeta Functions and Associated Series and Integrals Hari M Srivastava,Junesang Choi,2011-10-11 Zeta and q Zeta Functions and Associated Series and Integrals is a thoroughly revised enlarged and updated version of Series Associated with the Zeta and Related Functions Many of the chapters and sections of the book have been significantly modified or rewritten and a new chapter on the theory and applications of the basic or q extensions of various special functions is included This book will be invaluable because it covers not only detailed and systematic presentations of the theory and applications of the various methods and techniques used in dealing with many different classes of series and integrals associated with the Zeta and related functions but stimulating historical accounts of a large number of problems and well classified tables of series and integrals Detailed and systematic presentations of the theory and applications of the various methods and techniques used in dealing with many different classes of series and integrals associated with the Zeta and related functions *Zeitschrift für Angewandte Mathematik und Mechanik. Volume 69, Number 7* H. Heinrich,G. Schmid,2022-03-21 Keine ausf hrliche Beschreibung f r Z ANGEW MATH MECH BD 69 7 ZAMM E BOOK verf gbar **Eta Products and Theta Series Identities** Günter Köhler,2011-01-15 This monograph deals with products of Dedekind s eta function with Hecke theta series on quadratic number fields and with Eisenstein series The author brings to the public the large number of identities that have been discovered over the past 20 years the majority of which have not been published elsewhere The book will be of interest to graduate students and scholars in the field of number theory and in particular modular forms It is not an introductory text in this field Nevertheless some theoretical background material is presented that is important for understanding the examples in Part II of the book In Part I relevant definitions and essential theorems such as a complete proof of the structure theorems for coprime residue class groups in quadratic number fields that are not easily accessible in the literature are provided Another example is a thorough description of an algorithm for listing all eta products of given weight and level together with proofs of some results on the bijection between these eta products and lattice simplices *Algebraic, Number Theoretic, and Topological Aspects of Ring Theory* Jean-Luc Chabert,Marco Fontana,Sophie Frisch,Sarah Glaz,Keith Johnson,2023-07-07 This volume has been curated from two sources presentations from the Conference on Rings and Polynomials Technische Universit t Graz Graz Austria July 19 24 2021 and papers intended for presentation at the Fourth International Meeting on

Integer valued Polynomials and Related Topics CIRM Luminy France which was cancelled due to the pandemic The collection ranges widely over the algebraic number theoretic and topological aspects of rings algebras and polynomials Two areas of particular note are topological methods in ring theory and integer valued polynomials The book is dedicated to the memory of Paul Jean Cahen a coauthor or research collaborator with some of the conference participants and a friend to many of the others This collection contains a memorial article about Paul Jean Cahen written by his longtime research collaborator and coauthor Jean Luc Chabert   **Sums of Squares of Integers** Carlos J. Moreno,Jr. Wagstaff,2005-12-09 Sums of Squares of Integers covers topics in combinatorial number theory as they relate to counting representations of integers as sums of a certain number of squares The book introduces a stimulating area of number theory where research continues to proliferate It is a book of firsts namely it is the first book to combine Liouville s elementary methods with the analytic methods of modular functions to study the representation of integers as sums of squares It is the first book to tell how to compute the number of representations of an integer n as the sum of s squares of integers for any s and n It is also the first book to give a proof of Szemeredi s theorem and is the first number theory book to discuss how the modern theory of modular forms complements and clarifies the classical fundamental results about sums of squares The book presents several existing yet still interesting and instructive examples of modular forms Two chapters develop useful properties of the Bernoulli numbers and illustrate arithmetic progressions proving the theorems of van der Waerden Roth and Szemeredi The book also explains applications of the theory to three problems that lie outside of number theory in the areas of cryptanalysis microwave radiation and diamond cutting The text is complemented by the inclusion of over one hundred exercises to test the reader s understanding   A Generalization of Bohr-Mollerup's Theorem for Higher Order Convex Functions Jean-Luc Marichal,Naïm Zenaïdi,2022-07-06 In 1922 Harald Bohr and Johannes Mollerup established a remarkable characterization of the Euler gamma function using its log convexity property A decade later Emil Artin investigated this result and used it to derive the basic properties of the gamma function using elementary methods of the calculus Bohr Mollerup s theorem was then adopted by Nicolas Bourbaki as the starting point for his exposition of the gamma function This open access book develops a far reaching generalization of Bohr Mollerup s theorem to higher order convex functions along lines initiated by Wolfgang Krull Roger Webster and some others but going considerably further than past work In particular this generalization shows using elementary techniques that a very rich spectrum of functions satisfy analogues of several classical properties of the gamma function including Bohr Mollerup s theorem itself Euler s reflection formula Gauss multiplication theorem Stirling s formula and Weierstrass canonical factorization The scope of the theory developed in this work is illustrated through various examples ranging from the gamma function itself and its variants and generalizations q gamma polygamma multiple gamma functions to important special functions such as the Hurwitz zeta function and the generalized Stieltjes constants This volume is also an opportunity to honor the 100th anniversary of Bohr Mollerup s theorem and to spark the interest of a large

number of researchers in this beautiful theory   Rational Number Theory in the 20th Century Władysław Narkiewicz,2011-09-02 The last one hundred years have seen many important achievements in the classical part of number theory After the proof of the Prime Number Theorem in 1896 a quick development of analytical tools led to the invention of various new methods like Brun s sieve method and the circle method of Hardy Littlewood and Ramanujan developments in topics such as prime and additive number theory and the solution of Fermat s problem Rational Number Theory in the 20th Century From PNT to FLT offers a short survey of 20th century developments in classical number theory documenting between the proof of the Prime Number Theorem and the proof of Fermat s Last Theorem The focus lays upon the part of number theory that deals with properties of integers and rational numbers Chapters are divided into five time periods which are then further divided into subject areas With the introduction of each new topic developments are followed through to the present day This book will appeal to graduate researchers and student in number theory however the presentation of main results without technicalities will make this accessible to anyone with an interest in the area   **Series Associated With the Zeta and Related Functions** Hari M. Srivastava,Junesang Choi,2001 In recent years there has been an increasing interest in problems involving closed form evaluations of and representations of the Riemann Zeta function at positive integer arguments as various families of series associated with the Riemann Zeta function s the Hurwitz Zeta function s a and their such extensions and generalizations as for example Lerch s transcendent or the Hurwitz Lerch Zeta function iI z s a Some of these developments have apparently stemmed from an over two century old theorem of Christian Goldbach 1690 1764 which was stated in a letter dated 1729 from Goldbach to Daniel Bernoulli 1700 1782 from recent rediscoveries of a fairly rapidly convergent series representation for 3 which is actually contained in a 1772 paper by Leonhard Euler 1707 1783 and from another known series representation for 3 which was used by Roger Apery 1916 1994 in 1978 in his celebrated proof of the irrationality of 3 This book is motivated essentially by the fact that the theories and applications of the various methods and techniques used in dealing with many different families of series associated with the Riemann Zeta function and its aforementioned relatives are to be found so far onlyin widely scattered journal articles Thus our systematic and unified presentation of these results on the evaluation and representation of the Zeta and related functions is expected to fill a conspicuous gap in the existing books dealing exclusively with these Zeta functions   *Number Theory and Modular Forms* Bruce C. Berndt,Ken Ono,2013-11-11 Robert A Rankin one of the world s foremost authorities on modular forms and a founding editor of The Ramanujan Journal died on January 27 2001 at the age of 85 Rankin had broad interests and contributed fundamental papers in a wide variety of areas within number theory geometry analysis and algebra To commemorate Rankin s life and work the editors have collected together 25 papers by several eminent mathematicians reflecting Rankin s extensive range of interests within number theory Many of these papers reflect Rankin s primary focus in modular forms It is the editors fervent hope that mathematicians will be stimulated by these papers and gain a greater

appreciation for Rankin s contributions to mathematics This volume would be an inspiration to students and researchers in the areas of number theory and modular forms **Trigonometric Sums and Their Applications** Andrei Raigorodskii,Michael Th. Rassias,2020-03-11 This volume presents in a unified manner both classic as well as modern research results devoted to trigonometric sums Such sums play an integral role in the formulation and understanding of a broad spectrum of problems which range over surprisingly many and different research areas Fundamental and new developments are presented to discern solutions to problems across several scientific disciplines Graduate students and researchers will find within this book numerous examples and a plethora of results related to trigonometric sums through pure and applied research along with open problems and new directions for future research

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