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Bernoulli Numbers and Zeta Functions



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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 double 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

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 others 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

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 $\zeta(s)$ the Hurwitz Zeta function $\zeta(s, a)$ and their such extensions and generalizations as for example Lerch's transcendent or the Hurwitz Lerch Zeta function $L(\alpha, \lambda, z)$ 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 $\zeta(3)$ which is actually contained in a 1772 paper by Leonhard Euler 1707-1783 and from another known series representation for $\zeta(3)$ which was used by Roger Apéry 1916-1994 in 1978 in his celebrated proof of the irrationality of $\zeta(3)$ 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 only in 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

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 Szemerédi'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 Szemerédi 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

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

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 $\zeta(s, a)$ and their such extensions and generalizations as for example Lerch's transcendent or the Hurwitz-Lerch Zeta function $\text{Li}_s(z)$ 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 π^2 which is actually contained in a 1772 paper by Leonhard Euler 1707-1783 and from another known series representation for π^2 which was used by Roger Apéry 1916-1994 in 1978 in his celebrated proof of the irrationality of π^2 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 only in 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

History of Zeta Functions Robert Spira, 1999 *History of Zeta Functions* Robert Spira, 1999 *Mathematical Reviews*, 2003

Overlapping Iterated Function Systems from the Perspective of Metric Number Theory Simon Baker, 2023-07-31

View the abstract *Reviews in Number Theory, 1984-96*, 1997 These six volumes include approximately 20 000 reviews of items in number theory that appeared in *Mathematical Reviews* between 1984 and 1996 This is the third such set of volumes

in number theory The first was edited by W J LeVeque and included reviews from 1940 1972 the second was edited by R K Guy and appeared in 1984 **Zeitschrift für angewandte Mathematik und Mechanik** ,1989 **Journal of Statistical Planning and Inference** North-Holland Publishing Company,1997 Revista Matemática Iberoamericana ,1998 *Revue Roumaine de Mathématiques Pures Et Appliquées* ,1986 *Zeitschrift für Angewandte Mathematik und Mechanik. Volume 69, Number 7* H. Heinrich,G. Schmid,2022-03-21 Keine ausführliche Beschreibung für Z ANGEW MATH MECH BD 69 7 ZAMM E BOOK verfügbar *Acta arithmetica* ,2001 *Zeta Functions, Topology and Quantum Physics* Takashi Aoki,Shigeru Kanemitsu,Mikio Nakahara,Yasuo Ohno,2008-05-10 This volume contains papers by invited speakers of the symposium Zeta Functions Topology and Quantum Physics held at Kinki University in Osaka Japan during the period of March 3 6 2003 The aims of this symposium were to establish mutual understanding and to exchange ideas among researchers working in various fields which have relation to zeta functions and zeta values We are very happy to add this volume to the series Developments in Mathematics from Springer In this respect Professor Krishnaswami Alladi helped us a lot by showing his keen and enthusiastic interest in publishing this volume and by contributing his paper with Alexander Berkovich We gratefully acknowledge financial support from Kinki University We would like to thank Professor Megumu Munakata Vice Rector of Kinki University and Professor Nobuki Kawashima Director of School of Interdisciplinary Studies of Science and Engineering Kinki University for their interest and support We also thank John Martindale of Springer for his excellent editorial work

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