

Mathematical Analysis I

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Bernoulli Numbers
Zeta Functions

Bernoulli Numbers and Zeta Functions

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Bernoulli Numbers And Zeta Functions

RJ Shavelson



Bernoulli Numbers And Zeta Functions:

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.

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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

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 $\zeta(s)$ 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 $\text{Li}_s(z, a)$ 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 $\frac{1}{3}$ which is actually contained in a 1772 paper by Leonhard Euler 1707-1783 and from another known series representation for $\frac{1}{3}$ which was used by Roger Apéry 1916-1994 in 1978 in his celebrated proof of the irrationality of $\frac{1}{3}$ 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

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

History of Zeta Functions Robert Spira,1999 **Generalized Multiple Zeta Functions and P-adic Q-Bernoulli Numbers** Ken Kamano,2007 *Zeta Functions over Zeros of Zeta Functions* André Voros,2009-11-21 In this text the famous zeros of the Riemann zeta function and its generalizations L functions Dedekind and Selberg zeta functions are analyzed through several zeta functions built over those zeros *Unusual Applications of Number Theory* Melvyn Bernard Nathanson,2004 This volume contains the proceedings of the workshop held at the DIMACS Center of Rutgers University Piscataway NJ on Unusual Applications of Number Theory Standard applications of number theory are to computer science and cryptology In this volume well known number theorist Melvyn B Nathanson gathers articles from the workshop on other less standard applications in number theory as well as topics in number theory with potential applications in science and engineering The material is suitable for graduate students and researchers interested in number theory and its applications *History of Zeta Functions* Robert Spira,1999

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