

Neal Koblitz

p-adic Numbers,
p-adic Analysis, and
Zeta-Functions

Second Edition



P Adic Numbers P Adic Analysis And Zeta Functions

**Carlos Galindo,Alejandro Melle
Hernández,Julio José Moyano-
Fernández,Wilson A. Zúñiga-Galindo**

P Adic Numbers P Adic Analysis And Zeta Functions:

p-adic Numbers, p-adic Analysis, and Zeta-Functions NEAL Koblitz, 2012-12-06 These lecture notes are intended as an introduction to p -adic analysis on the elementary level For this reason they presuppose as little background as possible Besides about three semesters of calculus I presume some slight exposure to more abstract mathematics to the extent that the student won't have an adverse reaction to matrices with entries in a field other than the real numbers field extensions of the rational numbers or the notion of a continuous map of topological spaces The purpose of this book is twofold to develop some basic ideas of p -adic analysis and to present two striking applications which it is hoped can be as effective pedagogically as they were historically in stimulating interest in the field The first of these applications is presented in Chapter II since it only requires the most elementary properties of \mathbb{Q} this is Mazur's construction by p -means of p -adic integration of the Kubota Leopoldt p -adic zeta function which p -adically interpolates the values of the Riemann zeta function at the negative odd integers My treatment is based on Mazur's Bourbaki notes unpublished

P-Adic Numbers, P-Adic Analysis, and Zeta-Functions N. Koblitz, 1977-11-01 [P-adic Numbers, P-adic Analysis, and Zeta-functions](#) Neal Koblitz, 1984

p-adic Numbers, p-adic Analysis, and Zeta-Functions Neal Koblitz, 2012-12-06 Neal Koblitz was a student of Nicholas M Katz under whom he received his Ph D in mathematics at Princeton in 1974 He spent the year 1974-75 and the spring semester 1978 in Moscow where he did research in p -adic analysis and also translated Yu I Manin's Course in Mathematical Logic GTM 53 He taught at Harvard from 1975 to 1979 and since 1979 has been at the University of Washington in Seattle He has published papers in number theory algebraic geometry and p -adic analysis and he is the author of p -adic Analysis A Short Course on Recent Work Cambridge University Press and GTM 97 Introduction to Elliptic Curves and Modular Forms Springer Verlag

p -Adic Analysis, Arithmetic and Singularities Carlos Galindo, Alejandro Melle Hernández, Julio José Moyano-Fernández, Wilson A. Zúñiga-Galindo, 2022-05-11 This volume contains the proceedings of the 2019 Luis A Santal Summer School on p -Adic Analysis Arithmetic and Singularities which was held from June 24-28 2019 at the Universidad Internacional Menéndez Pelayo Santander Spain The main purpose of the book is to present and analyze different incarnations of the local zeta functions and their multiple connections in mathematics and theoretical physics Local zeta functions are ubiquitous objects in mathematics and theoretical physics At the mathematical level local zeta functions contain geometry and arithmetic information about the set of zeros defined by a finite number of polynomials In terms of applications in theoretical physics these functions play a central role in the regularization of Feynman amplitudes and Koba-Nielsen type string amplitudes among other applications This volume provides a gentle introduction to a very active area of research that lies at the intersection of number theory p -adic analysis algebraic geometry singularity theory and theoretical physics Specifically the book introduces p -adic analysis the theory of Archimedean p -adic and motivic zeta functions singularities of plane curves and their Poincaré series among other similar topics It also contains original contributions in the

aforementioned areas written by renowned specialists This book is an important reference for students and experts who want to delve quickly into the area of local zeta functions and their many connections in mathematics and theoretical physics

Introduction to p -adic Analytic Number Theory M. Ram Murty, 2009-02-09 This book is an elementary introduction to p -adic analysis from the number theory perspective With over 100 exercises included it will acquaint the non expert to the basic ideas of the theory and encourage the novice to enter this fertile field of research The main focus of the book is the study of p -adic L functions and their analytic properties It begins with a basic introduction to Bernoulli numbers and continues with establishing the Kummer congruences These congruences are then used to construct the p -adic analog of the Riemann zeta function and p -adic analogs of Dirichlet's L functions Featured is a chapter on how to apply the theory of Newton polygons to determine Galois groups of polynomials over the rational number field As motivation for further study the final chapter introduces Iwasawa theory

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P-Adic Analysis and Zeta Functions Paul Monsky, 1970 **Analytic Number Theory, Approximation Theory, and Special Functions** Gradimir V. Milovanović, Michael Th. Rassias, 2014-07-08 This book in honor of Hari M Srivastava discusses essential developments in mathematical research in a variety of problems It contains thirty five articles written by eminent scientists from the international mathematical community including both research and survey works Subjects covered include analytic number theory combinatorics special sequences of numbers and polynomials analytic inequalities and applications approximation of functions and quadratures orthogonality and special and complex functions The mathematical results and open problems discussed in this book are presented in a simple and self contained manner The book contains an overview of old and new results methods and theories toward the solution of longstanding problems in a wide scientific field as well as new results in rapidly progressing areas of research The book will be useful for researchers and graduate students in the fields of mathematics physics and other computational and applied sciences

P-adic Analysis Neal Koblitz, 1980-11-28 An introduction to recent work in the theory of numbers and its interrelation with algebraic geometry and analysis

Fractal Geometry, Complex Dimensions and Zeta Functions Michel Lapidus, Machiel van Frankenhuysen, 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 Throughout Geometry Complex Dimensions and Zeta Functions Second Edition 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 *Using the Mathematics Literature* Kristine K. Fowler, 2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics and details methods of access to primary literature sources of new research applications results and techniques Using the Mathematics Literature is the most comprehensive and up to date resource on mathematics literature in both print and electronic formats presenting time saving strategies for retrieval of the latest information *On Classification of Ruled Surfaces* Masaki Maruyama, Masayoshi Nagata, Paul Monsky, 1970 Contemporary Geometry And Related Topics, Proceedings Of The Workshop Neda Bokan, Mirjana Djoric, Anatoly T Fomenko, Zoran Rakic, Julius Wess, 2004-03-15 This volume covers a broad range of subjects in modern geometry and related branches of mathematics physics and computer science Most of the papers show new interesting results in Riemannian geometry homotopy theory theory of Lie groups and Lie algebras topological analysis integrable systems quantum groups and noncommutative geometry There are also papers giving overviews of the recent achievements in some special topics such as the Willmore conjecture geodesic mappings Weyl's tube formula and integrable geodesic flows This book provides a great chance for interchanging new results and ideas in multidisciplinary studies The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTEP CDRom version ISI Proceedings CC Proceedings Engineering Physical Sciences *Proceedings of the Workshop Contemporary Geometry and Related Topics* Neda Bokan, 2004 Readership Researchers in geometry topology nonlinear science and dynamical systems **Motives**, 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 the last ten years or so researchers in various areas Hodge theory algebraic K theory polylogarithms automorphic forms L functions ℓ -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 This is one of two volumes containing 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 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

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Journal of the Korean Mathematical Society ,2007 **Problems of Modern Mathematical Physics** ,2000 Asymptotic Expansions of Quantum Invariants and a Zeta-function of a Knot Jeffrey M. Sink,1999

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