



P Adic Numbers

Neal Koblitz



P Adic Numbers:

p-adic Numbers Fernando Quadros Gouvea, 2012-12-06 In the course of their undergraduate careers most mathematics majors see little beyond standard mathematics basic real and complex analysis abstract algebra some differential geometry etc There are few adventures in other territories and few opportunities to visit some of the more exotic corners of mathematics The goal of this book is to offer such an opportunity by way of a visit to the p-adic universe Such a visit offers a glimpse of a part of mathematics which is both important and fun and which also is something of a meeting point between algebra and analysis Over the last century p-adic numbers and p-adic analysis have come to play a central role in modern number theory This importance comes from the fact that they afford a natural and powerful language for talking about congruences between integers and allow the use of methods borrowed from calculus and analysis for studying such problems More recently p-adic numbers have shown up in other areas of mathematics and even in physics p-adic Numbers Fernando Q. Gouvêa, 2020-06-19 There are numbers of all kinds rational real complex p-adic The p-adic numbers are less well known than the others but they play a fundamental role in number theory and in other parts of mathematics This elementary introduction offers a broad understanding of p-adic numbers From the reviews It is perhaps the most suitable text for beginners and I shall definitely recommend it to anyone who asks me what a p-adic number is THE MATHEMATICAL GAZETTE *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 Numbers** Fernando Gouvea, 2003-05-22 There are numbers of all kinds rational real complex p-adic The p-adic numbers are less well known than the others but they play a fundamental role in number theory and in other parts of mathematics This elementary introduction offers a broad understanding of p-adic numbers From the reviews It is perhaps the most suitable text for beginners and I shall definitely recommend it to anyone who asks me what a p-adic number is THE MATHEMATICAL GAZETTE **P-adic Numbers** Fernando Quadros Gouvêa, 2000 **Introduction to P-Adic Numbers and Their Functions** Kurt Mahler, 1973-03-29 **P-Adic Numbers** Fernando Q. Gouvea, 2014-01-15 **P-adic Analysis and Mathematical Physics** Vasili? Sergeevich Vladimirov, I. V. Volovich, E. I. Zelenov, 1994 p-adic numbers play a very important role in modern number theory algebraic geometry and representation theory Lately p-adic numbers have attracted a great deal of attention in modern theoretical physics as a promising new approach for describing the non-Archimedean geometry of space-time at small distances This is the first book

to deal with applications of p -adic numbers in theoretical and mathematical physics. It gives an elementary and thoroughly written introduction to p -adic numbers and p -adic analysis with great numbers of examples as well as applications of p -adic numbers in classical mechanics, dynamical systems, quantum mechanics, statistical physics, quantum field theory, and string theory.

p -Adic Valued Distributions in Mathematical Physics Andrei Y. Khrennikov, 2013-03-09

Numbers: natural, rational, real, complex, p -adic. What do you know about p -adic numbers? Probably you have never used any p -adic nonrational number before now. I was in the same situation few years ago. p -adic numbers were considered as an exotic part of pure mathematics without any application. I have also used only real and complex numbers in my investigations in functional analysis and its applications to the quantum field theory, and I was sure that these number fields can be a basis of every physical model generated by nature. But recently new models of the quantum physics were proposed on the basis of p -adic numbers.

Field \mathbb{Q}_p

What are p -adic numbers? p -adic analysis, p -adic physics, p -adic probability. p -adic numbers were introduced by K. Hensel in 1904 in connection with problems of the pure theory of numbers. The construction of \mathbb{Q}_p is very similar to the construction of \mathbb{R} if p is a fixed prime number $p \neq 2, 3, 5, 127$. Both these number fields are completions of the field of rational numbers \mathbb{Q} . But another valuation v_p is introduced on \mathbb{Q} instead of the usual real valuation v . We get an infinite sequence of non-isomorphic completions of \mathbb{Q} : $\mathbb{Q}_2, \mathbb{Q}_3, \mathbb{Q}_{127}, \dots, \mathbb{Q}_p, \dots$. These fields are the only possibilities to complete \mathbb{Q} according to the famous theorem of Ostrowsky.

Number Theory, 1986-05-05

This book is written for the student in mathematics. Its goal is to give a view of the theory of numbers of the problems with which this theory deals and of the methods that are used. We have avoided that style which gives a systematic development of the apparatus and have used instead a freer style in which the problems and the methods of solution are closely interwoven. We start from concrete problems in number theory. General theories arise as tools for solving these problems. As a rule, these theories are developed sufficiently far so that the reader can see for himself their strength and beauty and so that he learns to apply them. Most of the questions that are examined in this book are connected with the theory of diophantine equations, that is, with the theory of the solutions in integers of equations in several variables. However, we also consider questions of other types; for example, we derive the theorem of Dirichlet on prime numbers in arithmetic progressions and investigate the growth of the number of solutions of congruences.

A Course in p -adic Analysis Alain M. Robert, 2000-05-31

Discovered at the turn of the 20th century, p -adic numbers are frequently used by mathematicians and physicists. This text is a self-contained presentation of basic p -adic analysis with a focus on analytic topics. It offers many features rarely treated in introductory p -adic texts, such as topological models of p -adic spaces inside Euclidean space, a special case of Hensel's functional equation lemma, and a treatment of analytic elements.

A Course in p -adic Analysis Alain M. Robert, 2013-04-17

Kurt Hensel (1861–1941) discovered the p -adic numbers around the turn of the century. These exotic numbers, or so they appeared at first, are now well established in the mathematical world and used more and more by physicists as well. This book offers a self-contained presentation of basic p -adic analysis. The author is especially

interested in the analytical topics in this field Some of the features which are not treated in other introductory p -adic analysis texts are topological models of p -adic spaces inside Euclidean space a construction of spherically complete fields a p -adic mean value theorem and some consequences a special case of Hazewinkel's functional equation lemma a remainder formula for the Mahler expansion and most importantly a treatment of analytic elements

Introduction to p -adic Numbers and Valuation Theory George Bachman, 1964

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

p -Adic Methods in Number Theory and Algebraic Geometry Alan Adolphson, Steven Sperber, Marvin Tretkoff, 1992 Two meetings of the AMS in the autumn of 1989 one at the Stevens Institute of Technology and the other at Ball State University included Special Sessions on the role of p -adic methods in number theory and algebraic geometry This volume grew out of these Special Sessions Drawn from a wide area of mathematics the articles presented here provide an excellent sampling of the broad range of trends and applications in p -adic methods

p -adic Analysis Compared with Real Svetlana Katok, 2007 The book gives an introduction to p -adic numbers from the point of view of number theory topology and analysis Compared to other books on the subject its novelty is both a particularly balanced approach to these three points of view and an emphasis on topics accessible to undergraduates in addition several topics from real analysis and elementary topology which are not usually covered in undergraduate courses totally disconnected spaces and Cantor sets points of discontinuity of maps and the Baire Category Theorem surjectivity of isometries of compact metric spaces are also included in the book They will enhance the reader's understanding of real analysis and intertwine the real and p -adic contexts of the book The book is based on an advanced undergraduate course given by the author The choice of the topic was motivated by the internal beauty of the subject of p -adic analysis an unusual one in the undergraduate curriculum and abundant opportunities to compare it with its much more familiar real counterpart The book includes a large number of exercises Answers hints and solutions for most of them appear at the end of the book Well written with obvious care for the reader the book can be successfully used in a topic course or for self study

p -adic Numbers Fernando Quadros Gouvêa, 2017

Introduction to p -adic Numbers and Their Functions Kurt Mahler, 1973

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

p -Adic Numbers Cleveland Maddock, 2024-09-10 Have you

ever wondered what the f ck p -adic numbers are Look no further This comprehensive guide explores the historical context algebraic and analytic properties and applications of p -adic numbers in mathematics physics and computer science From number theory to cryptography quantum mechanics to machine learning this book uncovers the peculiarities and power of p -adic numbers Whether youre a mathematician or a curious reader this fascinating journey into the world of p -adic numbers will leave you both enlightened and entertained

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Table of Contents P Adic Numbers

1. Understanding the eBook P Adic Numbers
 - The Rise of Digital Reading P Adic Numbers
 - Advantages of eBooks Over Traditional Books
2. Identifying P Adic Numbers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an P Adic Numbers
 - User-Friendly Interface
4. Exploring eBook Recommendations from P Adic Numbers
 - Personalized Recommendations
 - P Adic Numbers User Reviews and Ratings

- P Adic Numbers and Bestseller Lists
- 5. Accessing P Adic Numbers Free and Paid eBooks
 - P Adic Numbers Public Domain eBooks
 - P Adic Numbers eBook Subscription Services
 - P Adic Numbers Budget-Friendly Options
- 6. Navigating P Adic Numbers eBook Formats
 - ePub, PDF, MOBI, and More
 - P Adic Numbers Compatibility with Devices
 - P Adic Numbers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of P Adic Numbers
 - Highlighting and Note-Taking P Adic Numbers
 - Interactive Elements P Adic Numbers
- 8. Staying Engaged with P Adic Numbers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers P Adic Numbers
- 9. Balancing eBooks and Physical Books P Adic Numbers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection P Adic Numbers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine P Adic Numbers
 - Setting Reading Goals P Adic Numbers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of P Adic Numbers
 - Fact-Checking eBook Content of P Adic Numbers
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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