

# **Padic Numbers**

Fernando Q. Gouvêa

#### **Padic 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 ab stract algebra some differential geometry etc There are few adventures in other territories and few opportunities to visit some of the more exotic cor ners 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 playa 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 num bers have shown up in other areas of mathematics and even in physics 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 O. 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 **Introduction to P-Adic Numbers and Their Functions Kurt P-adic Analysis and Mathematical Physics** Mahler, 1973-03-29 **P-adic Numbers** Fernando Quadros Gouvêa,2000 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 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 **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 Euclidian space a special case of Hazewinkel's functional equation lemma and a treatment of analytic elements **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

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