

# Graduate Texts in Mathematics

**Alain M. Robert**

## **A Course in $p$ -adic Analysis**



**Springer**

# Course In P Adic Analysis

**David Carfi, Michel Laurent  
Lapidus, Erin P. J. Pearce, Machiel Van  
Frankenhuysen**

## Course In P Adic Analysis:

**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     A Course in P-Adic Analysis Alain M. Robert, 2014-01-15     *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     **P-adic**

**Analysis** Neal Koblitz, 1980-11-28 This introduction to recent work in p adic analysis and number theory will make accessible to a relatively general audience the efforts of a number of mathematicians over the last five years After reviewing the basics the construction of p adic numbers and the p adic analog of the complex number field power series and Newton polygons the author develops the properties of p adic Dirichlet L series using p adic measures and integration p adic gamma functions are introduced and their relationship to L series is explored Analogies with the corresponding complex analytic case are stressed Then a formula for Gauss sums in terms of the p adic gamma function is proved using the cohomology of Fermat and Artin Schreier curves Graduate students and research workers in number theory algebraic geometry and parts of algebra and analysis will welcome this account of current research     MASS Selecta Svetlana Katok, A. B. Sossinsky, Serge Tabachnikov, This book results from a unique and innovative program at Pennsylvania State University Under the program the best of the best students nationwide are chosen to study challenging mathematical areas under the guidance of experienced mathematicians This program Mathematics Advanced Study Semesters MASS offers an unparalleled opportunity for talented undergraduate students who are serious in the pursuit of mathematical knowledge This volume represents various aspects of the MASS program over its six year existence including core courses summer courses students research and colloquium talks The book is most appropriate for college professors of mathematics who work with bright and eager undergraduate and beginning graduate students for such students who want to expand their mathematical horizons and for everyone who loves mathematics and wants to learn more interesting and unusual material The first half of the book contains lecture notes of nonstandard courses A text for a semester long course on p adic analysis is centered around contrasts and similarities with its real counterpart A shorter text focuses on a classical area of interplay between geometry algebra and number theory continued fractions hyperbolic geometry and quadratic forms Also provided are detailed descriptions of two innovative courses one on geometry and the other on classical mechanics These notes constitute what one may call the skeleton of a course leaving the instructor ample room for innovation and improvisation The second half of the book contains a large collection of essays on a broad spectrum of exciting topics from Hilbert s Fourth Problem to geometric inequalities and minimal surfaces from mathematical billiards to fractals and tilings from unprovable theorems to the classification of finite

simple groups and lexicographic codes      *Problems in Analytic Number Theory* M. Ram Murty, 2008-04-16 This informative and exhaustive study gives a problem solving approach to the difficult subject of analytic number theory It is primarily aimed at graduate students and senior undergraduates The goal is to provide a rapid introduction to analytic methods and the ways in which they are used to study the distribution of prime numbers The book also includes an introduction to  $p$  adic analytic methods It is ideal for a first course in analytic number theory The new edition has been completely rewritten errors have been corrected and there is a new chapter on the arithmetic progression of primes      **Class Field Theory** Georges Gras, 2013-11-11 Global class field theory is a major achievement of algebraic number theory based on the functorial properties of the reciprocity map and the existence theorem This book explores the consequences and the practical use of these results in detailed studies and illustrations of classical subjects In the corrected second printing 2005 the author improves many details all through the book      **Mathematical Analyses of Decisions, Voting and Games** Michael A. Jones, David McCune, Jennifer M. Wilson, 2024-03-25 This volume contains the proceedings of the virtual AMS Special Session on Mathematics of Decisions Elections and Games held on April 8 2022 Decision theory voting theory and game theory are three related areas of mathematics that involve making optimal decisions in different contexts While these three areas are distinct much of the recent research in these fields borrows techniques from other branches of mathematics such as algebra combinatorics convex geometry logic representation theory etc The papers in this volume demonstrate how the mathematics of decisions elections and games can be used to analyze problems from the social sciences       **$p$ -adic Numbers** Fernando Q. Gouvea, 2013-06-29  $p$  adic numbers are of great theoretical importance in number theory since they allow the use of the language of analysis to study problems relating to prime numbers and diophantine equations Further they offer a realm where one can do things that are very similar to classical analysis but with results that are quite unusual The book should be of use to students interested in number theory but at the same time offers an interesting example of the many connections between different parts of mathematics The book strives to be understandable to an undergraduate audience Very little background has been assumed and the presentation is leisurely There are many problems which should help readers who are working on their own a large appendix with hints on the problem is included Most of all the book should offer undergraduates exposure to some interesting mathematics which is off the beaten track Those who will later specialize in number theory algebraic geometry and related subjects will benefit more directly but all mathematics students can enjoy the book      **Introduction to Elliptic Curves and Modular Forms** Neal I. Koblitz, 2012-12-06 This textbook covers the basic properties of elliptic curves and modular forms with emphasis on certain connections with number theory The ancient congruent number problem is the central motivating example for most of the book My purpose is to make the subject accessible to those who find it hard to read more advanced or more algebraically oriented treatments At the same time I want to introduce topics which are at the forefront of current research Down to earth examples are given in the text and

exercises with the aim of making the material readable and interesting to mathematicians in fields far removed from the subject of the book. With numerous exercises and answers included, the textbook is also intended for graduate students who have completed the standard first year courses in real and complex analysis and algebra. Such students would learn applications of techniques from those courses thereby solidifying their understanding of some basic tools used throughout mathematics. Graduate students wanting to work in number theory or algebraic geometry would get a motivational example oriented introduction. In addition, advanced undergraduates could use the book for independent study projects, senior theses and seminar work.

Modular Functions and Dirichlet Series in Number Theory Tom M. Apostol, 2012-12-06. This is the second volume of a 2 volume textbook which evolved from a course Mathematics 160 offered at the California Institute of Technology during the last 25 years. The second volume presupposes a background in number theory comparable to that provided in the first volume together with a knowledge of the basic concepts of complex analysis. Most of the present volume is devoted to elliptic functions and modular functions with some of their number theoretic applications. Among the major topics treated are Rademacher's convergent series for the partition function, Lehner's congruences for the Fourier coefficients of the modular function  $j(\tau)$  and Hecke's theory of entire forms with multiplicative Fourier coefficients. The last chapter gives an account of Bohr's theory of equivalence of general Dirichlet series. Both volumes of this work emphasize classical aspects of a subject which in recent years has undergone a great deal of modern development. It is hoped that these volumes will help the nonspecialist become acquainted with an important and fascinating part of mathematics and at the same time will provide some of the background that belongs to the repertory of every specialist in the field. This volume like the first is dedicated to the students who have taken this course and have gone on to make notable contributions to number theory and other parts of mathematics. T. M. A. January 1976. The first volume is in the Springer Verlag series Undergraduate Texts in Mathematics under the title Introduction to Analytic Number Theory.

**Fundamentals of Differential Geometry** Serge Lang, 2012-12-06. The present book aims to give a fairly comprehensive account of the fundamentals of differential manifolds and differential geometry. The size of the book influenced where to stop and there would be enough material for a second volume; this is not a threat. At the most basic level, the book gives an introduction to the basic concepts which are used in differential topology, differential geometry and differential equations. In differential topology, one studies for instance homotopy classes of maps and the possibility of finding suitable differentiable maps in them, immersions, embeddings, isomorphisms etc. One may also use differentiable structures on topological manifolds to determine the topological structure of the manifold; for example, it is a theorem of Smale that a manifold is contractible if and only if it is a retract of a Euclidean space. In differential geometry, one puts an additional structure on the differentiable manifold: a vector field, a spray, a 2-form, a Riemannian metric, ad lib, and studies properties connected especially with these objects. Formally, one may say that one studies properties invariant under the group of differentiable automorphisms which preserve the additional structure. In differential equations, one studies vector fields and their integral curves, singular points

stable and unstable manifolds etc A certain number of concepts are essential for all three and are so basic and elementary that it is worthwhile to collect them together so that more advanced expositions can be given without having to start from the very beginnings

*The Arithmetic of Dynamical Systems* J.H. Silverman, 2010-05-05 This book is designed to provide a path for the reader into an amalgamation of two venerable areas of mathematics Dynamical Systems and Number Theory Many of the motivating theorems and conjectures in the new subject of Arithmetic Dynamics may be viewed as the transposition of classical results in the theory of Diophantine equations to the setting of discrete dynamical systems especially to the iteration theory of maps on the projective line and other algebraic varieties Although there is no precise dictionary connecting the two areas the reader will gain a flavor of the correspondence from the following associations Diophantine Equations Dynamical Systems rational and integral rational and integral points on varieties points in orbits torsion points on periodic and preperiodic abelian varieties points of rational maps There are a variety of topics covered in this volume but inevitably the choice reflects the author's tastes and interests Many related areas that also fall under the heading of arithmetic or algebraic dynamics have been omitted in order to keep the book to a manageable length A brief list of some of these omitted topics may be found in the introduction Online Resources The reader will find additional material references and errata at <http://www.math.brown.edu/~jhs/ADSHome.html> Acknowledgments The author has consulted a great many sources in writing this book Every attempt has been made to give proper attribution for all but the most standard results

Fractal Geometry and Dynamical Systems in Pure and Applied Mathematics: Fractals in pure mathematics David Carfi, Michel Laurent Lapidus, Erin P. J. Pearce, Machiel Van Frankenhuysen, 2013-10-22 This volume contains the proceedings from three conferences the PISRS 2011 International Conference on Analysis Fractal Geometry Dynamical Systems and Economics held November 8-12 2011 in Messina Italy the AMS Special Session on Fractal Geometry in Pure and Applied Mathematics in memory of Benoit Mandelbrot held January 4-7 2012 in Boston MA and the AMS Special Session on Geometry and Analysis on Fractal Spaces held March 3-4 2012 in Honolulu HI Articles in this volume cover fractal geometry and some aspects of dynamical systems in pure mathematics Also included are articles discussing a variety of connections of fractal geometry with other fields of mathematics including probability theory number theory geometric measure theory partial differential equations global analysis on non smooth spaces harmonic analysis and spectral geometry The companion volume Contemporary Mathematics Volume 601 focuses on applications of fractal geometry and dynamical systems to other sciences including physics engineering computer science economics and finance

**Introduction to Cyclotomic Fields** Lawrence C. Washington, 2012-12-06 Introduction to Cyclotomic Fields is a carefully written exposition of a central area of number theory that can be used as a second course in algebraic number theory Starting at an elementary level the volume covers p-adic L functions class numbers cyclotomic units Fermat's Last Theorem and Iwasawa's theory of  $\mathbb{Z}_p$  extensions leading the reader to an understanding of modern research literature Many exercises are included The second edition includes a new

chapter on the work of Thaine Kolyvagin and Rubin including a proof of the Main Conjecture There is also a chapter giving other recent developments including primality testing via Jacobi sums and Sinnott's proof of the vanishing of Iwasawa's  $\mu$ -invariant

**Partial Differential Equations** Jürgen Jost, 2007-01-08 This book offers an ideal introduction to the theory of partial differential equations It focuses on elliptic equations and systematically develops the relevant existence schemes always with a view towards nonlinear problems It also develops the main methods for obtaining estimates for solutions of elliptic equations Sobolev space theory weak and strong solutions Schauder estimates and Moser iteration It also explores connections between elliptic parabolic and hyperbolic equations as well as the connection with Brownian motion and semigroups This second edition features a new chapter on reaction diffusion equations and systems

**The Symmetric Group** Bruce E. Sagan, 2013-03-09 I have been very gratified by the response to the first edition which has resulted in it being sold out This put some pressure on me to come out with a second edition and now finally here it is The original text has stayed much the same the major change being in the treatment of the hook formula which is now based on the beautiful Novelli Pak Stoyanovskii bijection NPS 97 I have also added a chapter on applications of the material from the first edition This includes Stanley's theory of differential posets Stn 88 Stn 90 and Fomin's related concept of growths Fom 86 Fom 94 Fom 95 which extends some of the combinatorics of  $S_n$  representations Next come a couple of sections showing how groups acting on posets give rise to interesting representations that can be used to prove unimodality results Stn 82 Finally we discuss Stanley's symmetric function analogue of the chromatic polynomial of a graph Stn 95 Stn 96 I would like to thank all the people too numerous to mention who pointed out typos in the first edition My computer has been severely reprimanded for making them Thanks also go to Christian Krattenthaler Tom Roby and Richard Stanley all of whom read portions of the new material and gave me their comments Finally I would like to give my heartfelt thanks to my editor at Springer Ina Lindemann who has been very supportive and helpful through various difficult times

**Journal of Nonlinear Mathematical Physics Vol. 14**, **Introduction to Topological Manifolds** John M. Lee, 2006-04-06 This book is an introduction to manifolds at the beginning graduate level It contains the essential topological ideas that are needed for the further study of manifolds particularly in the context of differential geometry algebraic topology and related fields Its guiding philosophy is to develop these ideas rigorously but economically with minimal prerequisites and plenty of geometric intuition Here at the University of Washington for example this text is used for the first third of a year long course on the geometry and topology of manifolds the remaining two thirds focuses on smooth manifolds

There are many superb texts on general and algebraic topology available Why add another one to the catalog The answer lies in my particular vision of graduate education it is my admittedly biased belief that every serious student of mathematics needs to know manifolds intimately in the same way that most students come to know the integers the real numbers Euclidean spaces groups rings and fields Manifolds play a role in nearly every major branch of mathematics as I illustrate in Chapter 1 and

specialists in many fields find themselves using concepts and terminology from topology and manifold theory on a daily basis. Manifolds are thus part of the basic vocabulary of mathematics and need to be part of the basic graduate education. The first steps must be topological and are embodied in this book; in most cases they should be complemented by material on smooth manifolds, vector fields, differential forms, and the like. After all, few of the really interesting applications of manifold theory are possible without using tools from calculus.

**A Gentle Course in Local Class Field Theory** Pierre Guillot, 2018-11. A self-contained exposition of local class field theory for students in advanced algebra.



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