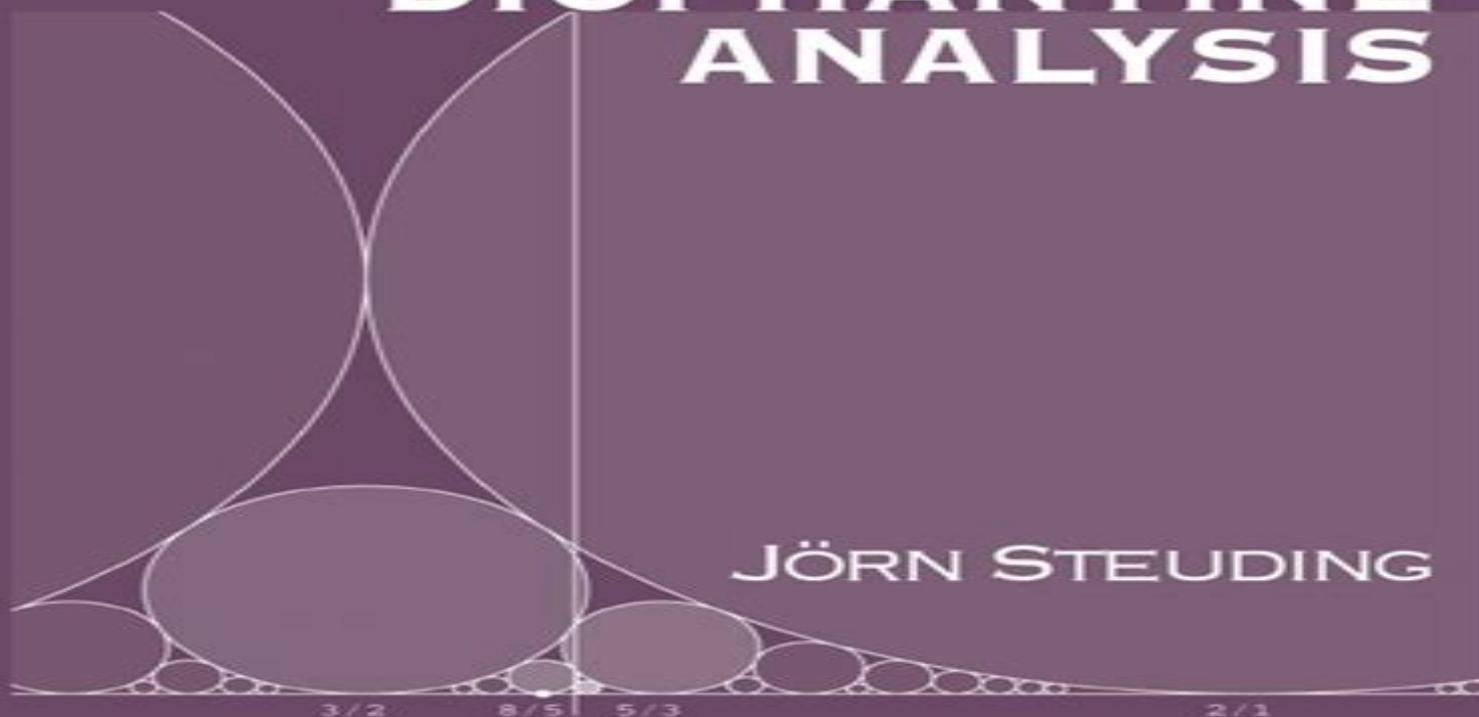


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DIOPHANTINE ANALYSIS

JÖRN STEUDING



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Diophantine Analysis

Robert D Carmichael



Diophantine Analysis:

Diophantine Analysis Jörn Steuding, 2016-12-21 This collection of course notes from a number theory summer school focus on aspects of Diophantine Analysis addressed to Master and doctoral students as well as everyone who wants to learn the subject The topics range from Baker's method of bounding linear forms in logarithms authored by Sanda Buja i and Alan Filipin metric diophantine approximation discussing in particular the yet unsolved Littlewood conjecture by Simon Kristensen Minkowski's geometry of numbers and modern variations by Bombieri and Schmidt Tapani Matala aho and a historical account of related number theory lists at the turn of the 19th Century Nicola M R Oswald Each of these notes serves as an essentially self contained introduction to the topic The reader gets a thorough impression of Diophantine Analysis by its central results relevant applications and open problems The notes are complemented with many references and an extensive register which makes it easy to navigate through the book

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Exploring the Number Jungle: A Journey into Diophantine Analysis Edward B. Burger, 2000 The minimal background requirements and the author's fresh approach make this book enjoyable and accessible to a wide range of students mathematicians and fans of number theory

BOOK JACKET *Lecture Notes on Diophantine Analysis* Umberto Zannier, 2015-05-05 These lecture notes originate from a course delivered at the Scuola Normale in Pisa in 2006 Generally speaking the prerequisites do not go beyond basic mathematical material and are accessible to many undergraduates The contents mainly concern diophantine problems on affine curves in practice describing the integer solutions of equations in two variables This case historically suggested some major ideas for more general problems Starting with linear and quadratic equations the important connections with Diophantine Approximation are presented and Thue's celebrated results are proved in full detail In later chapters more modern issues on heights of algebraic points are dealt with and applied to a sharp quantitative treatment of the unit equation The book also contains several supplements hinted exercises and an appendix on recent work on heights

Diophantus and Diophantine Equations Isabella Grigoryevna Bashmakova, 2019-01-18 This book tells the story of Diophantine analysis a

subject that owing to its thematic proximity to algebraic geometry became fashionable in the last half century and has remained so ever since This new treatment of the methods of Diophantus a person whose very existence has long been doubted by most historians of mathematics will be accessible to readers who have taken some university mathematics It includes the elementary facts of algebraic geometry indispensable for its understanding The heart of the book is a fascinating account of the development of Diophantine methods during the Renaissance and in the work of Fermat This account is continued to our own day and ends with an afterword by Joseph Silverman who notes the most recent developments including the proof of Fermat's Last Theorem

Diophantine Analysis Jorn Steuding, 2005-05-19 While its roots reach back to the third century diophantine analysis continues to be an extremely active and powerful area of number theory Many diophantine problems have simple formulations they can be extremely difficult to attack and many open problems and conjectures remain Diophantine Analysis examines the theory of diophantine ap

The Theory of Numbers Robert Daniel Carmichael, 1914

History of the Theory of Numbers Leonard Eugene Dickson, 1999

Diophantine Equations and Power Integral Bases István Gaál, 2019-09-03 Work examines the latest algorithms and tools to solve classical types of diophantine equations Unique book closest competitor Smart Cambridge does not treat index form equations Author is a leading researcher in the field of computational algebraic number theory The text is illustrated with several tables of various number fields including their data on power integral bases Several interesting properties of number fields are examined Some infinite parametric families of fields are also considered as well as the resolution of the corresponding infinite parametric families of diophantine equations

Elliptic Curves S. Lang, 1978-11-01 It is possible to write endlessly on elliptic curves This is not a threat We deal here with diophantine problems and we lay the foundations especially for the theory of integral points We review briefly the analytic theory of the Weierstrass function and then deal with the arithmetic aspects of the addition formula over complete fields and over number fields giving rise to the theory of the height and its quadraticity We apply this to integral points covering the inequalities of diophantine approximation both on the multiplicative group and on the elliptic curve directly Thus the book splits naturally in two parts The first part deals with the ordinary arithmetic of the elliptic curve The transcendental parametrization the p-adic parametrization points of finite order and the group of rational points and the reduction of certain diophantine problems by the theory of heights to diophantine inequalities involving logarithms The second part deals with the proofs of selected inequalities at least strong enough to obtain the finiteness of integral points

Diophantine Analysis Robert Carmichael, 2013-06-19 The purpose in writing this book has been to supply the reader with a convenient introduction to Diophantine Analysis The choice of material has been determined by the end in view No attempt has been made to include all special results but a large number of them are to be found both in the text and in the exercises The general theory of quadratic forms has been omitted entirely since that subject would require a volume in itself The reader will therefore miss such an elegant theorem as the following Every positive integer may be represented as the sum of

four squares Some methods of frequent use in the theory of quadratic forms in particular that of continued fractions have been left out of consideration even though they have some value for other Diophantine questions This is done for the sake of unity and brevity Probably these omissions will not be regretted since there are accessible sources through which one can make acquaintance with the parts of the theory excluded Concerning the exercises they are intended to serve three purposes to afford practice material for developing facility in the handling of problems in Diophantine analysis to give an indication of what special results have already been obtained and what special problems have been found amenable to attack and to point out unsolved problems which are interesting either from their elegance or from their relation to other problems which already have been treated Corresponding roughly to these three purposes the problems have been divided into three classes Those which have no distinguishing mark are intended to serve mainly the purpose first mentioned Of these there are 133 of which 45 are in the Miscellaneous Exercises at the end of the book Many of them are inserted at the end of individual sections with the purpose of suggesting that a problem in such position is readily amenable to the methods employed in the section to which it is attached Finally those exercises which are marked with a dagger 35 in number are intended to suggest investigations which have not yet been carried out so far as the author is aware Some of these are scarcely more than exercises while others call for investigations of considerable extent or interest

Robert D Carmichael CONTENTS I INTRODUCTION RATIONAL TRIANGLES METHOD OF INFINITE DESCENT 1 Introductory Remarks 2 Remarks Relating to Rational Triangles 3 Pythagorean Triangles 4 Rational Triangle 5 Impossibility of the System $x^2 + y^2 = z^2$ 6 The Method of Infinite Descent II PROBLEMS INVOLVING A MULTIPLICATIVE DOMAIN 7 On Numbers of the Form $x^2 + aby^2$ 8 On the Equation $x^2 + Dy^2 = z^2$ 9 General Equation of the Second Degree in Two Variables 10 Quadratic Equations Involving More than Three Variables 11 Certain Equations of Higher Degree 12 On the Extension of a Set of Numbers so as to Form a Multiplicative Domain III EQUATIONS OF THE THIRD DEGREE 13 On the Equation $kx^3 + ax^2y + bxy^2 + cy^3 = t^2$ 14 On the Equation $kx^3 + ax^2y + bxy^2 + cy^3 = t^3$ 15 On the Equation $x^3 + y^3 = z^3$ 16 Impossibility of the Equation $x^3 + y^3 = 2mz^3$ IV EQUATIONS OF THE FOURTH DEGREE 17 On the Equation $ax^4 + bx^3y + cx^2y^2 + dxy^3 + ey^4 = mz^2$ 18 On the Equation $ax^4 + by^4 = cz^2$ 19 Other Equations of the Fourth Degree V EQUATIONS OF DEGREE HIGHER THAN THE FOURTH THE FERMAT PROBLEM 20 Remarks Concerning Equations of Higher Degree 21 Elementary Properties of the Equation $x^n + y^n = z^n$ 22 Present State of Knowledge Concerning the Equation $x^p + y^p = z^p$ 0 VI THE METHOD OF FUNCTIONAL EQUATIONS 23 Introduction Rational Solutions of a Certain Functional Equation 24 Solution of a Certain Problem from Diophantus 25 Solution of a Certain Problem Due to Fermat

Quadratic Diophantine Equations Titu Andreescu, Dorin Andrica, 2015-06-29 This text treats the classical theory of quadratic diophantine equations and guides the reader through the last two decades of computational techniques and progress in the area The presentation features two basic methods to investigate and motivate the study of quadratic diophantine equations the theories of continued fractions and quadratic fields

It also discusses Pell's equation and its generalizations and presents some important quadratic diophantine equations and applications. The inclusion of examples makes this book useful for both research and classroom settings. *Diophantine Analysis* Robert D Carmichael, 2019-09-28. The author's purpose in writing this book has been to supply the reader with a convenient introduction to Diophantine Analysis. The choice of material has been determined by the end in view. No attempt has been made to include all special results but a large number of them are to be found both in the text and in the exercises. The general theory of quadratic forms has been omitted entirely since that subject would require a volume in itself. The reader will therefore miss such an elegant theorem as the following: Every positive integer may be represented as the sum of four squares. Some methods of frequent use in the theory of quadratic forms in particular that of continued fractions have been left out of consideration even though they have some value for other Diophantine questions. This is done for the sake of unity and brevity. Probably these omissions will not be regretted since there are accessible sources through which one can make acquaintance with the parts of the theory excluded.

History of the Theory of Numbers Leonard Eugene Dickson, 1999. Dickson's History is truly a monumental account of the development of one of the oldest and most important areas of mathematics. It is remarkable today to think that such a complete history could even be conceived. That Dickson was able to accomplish such a feat is attested to by the fact that his History has become the standard reference for number theory up to that time. One need only look at later classics such as Hardy and Wright where Dickson's History is frequently cited to see its importance. The book is divided into three volumes by topic. In scope the coverage is encyclopedic leaving very little out. It is interesting to see the topics being resuscitated today that are treated in detail in Dickson. The first volume of Dickson's History covers the related topics of divisibility and primality. It begins with a description of the development of our understanding of perfect numbers. Other standard topics such as Fermat's theorems, primitive roots, counting divisors, the Mobius function and prime numbers themselves are treated. Dickson in this thoroughness also includes less workhorse subjects such as methods of factoring, divisibility of factorials and properties of the digits of numbers. Concepts, results and citations are numerous. The second volume is a comprehensive treatment of Diophantine analysis. Besides the familiar cases of Diophantine equations, this rubric also covers partitions, representations as a sum of two, three, four or n squares, Waring's problem in general and Hilbert's solution of it and perfect squares in arithmetical and geometrical progressions. Of course many important Diophantine equations such as Pell's equation and classes of equations such as quadratic, cubic and quartic equations are treated in detail. As usual with Dickson the account is encyclopedic and the references are numerous. The last volume of Dickson's History is the most modern covering quadratic and higher forms. The treatment here is more general than in Volume II which in a sense is more concerned with special cases. Indeed this volume chiefly presents methods of attacking whole classes of problems. Again Dickson is exhaustive with references and citations.

Elementary Investigation of the Theory of Numbers, with Its Application to the Indeterminate and Diophantine Analysis, the Analytical and Geometrical

Division of the Circle, and Several Other Curious Algebraical and Arithmetical Problems Peter Barlow,1811 **History of the Theory of Numbers** Leonard Eugene Dickson,1952 *Diophantine Analysis* Robert D Carmichael,2019-12-20 The author's purpose in writing this book has been to supply the reader with a convenient introduction to Diophantine Analysis. The choice of material has been determined by the end in view. No attempt has been made to include all special results but a large number of them are to be found both in the text and in the exercises. The general theory of quadratic forms has been omitted entirely since that subject would require a volume in itself. The reader will therefore miss such an elegant theorem as the following: Every positive integer may be represented as the sum of four squares. Some methods of frequent use in the theory of quadratic forms in particular that of continued fractions have been left out of consideration even though they have some value for other Diophantine questions. This is done for the sake of unity and brevity. Probably these omissions will not be regretted since there are accessible sources through which one can make acquaintance with the parts of the theory excluded.

Diophantine Approximation Robert F. Tichy, Hans Peter Schlickewei, Klaus Schmidt, 2008-07-10 This volume contains 22 research and survey papers on recent developments in the field of diophantine approximation. The first article by Hans Peter Schlickewei is devoted to the scientific work of Wolfgang Schmidt. Further contributions deal with the subspace theorem and its applications to diophantine equations and to the study of linear recurring sequences. The articles are either in the spirit of more classical diophantine analysis or of geometric or combinatorial flavor. In particular estimates for the number of solutions of diophantine equations as well as results concerning congruences and polynomials are established. Furthermore the volume contains transcendence results for special functions and contributions to metric diophantine approximation and to discrepancy theory. The articles are based on lectures given at a conference at the Erwin Schrödinger Institute in Vienna in 2003 in which many leading experts in the field of diophantine approximation participated. The editors are very grateful to the Erwin Schrödinger Institute and to the FWF Austrian Science Fund for the financial support and they express their particular thanks to Springer Verlag for the excellent cooperation. Robert F. Tichy, Hans Peter Schlickewei, Klaus Schmidt, Editors. Springer Verlag, 2008. THE MATHEMATICAL WORK OF WOLFGANG SCHMIDT. Hans Peter Schlickewei, Mathematik Informatik und Philipps Universität Marburg, Hans Meerwein Strasse Marburg 35032 Marburg Germany. Introduction Wolfgang Schmidt's mathematical activities started more than fifty years ago in 1955. In the meantime he has written more than 180 papers many of them containing spectacular results and breakthroughs in different areas of number theory.

Algebraic Number Theory and Diophantine Analysis F. Halter-Koch, Robert F. Tichy, 2011-06-24 The series is aimed specifically at publishing peer reviewed reviews and contributions presented at workshops and conferences. Each volume is associated with a particular conference symposium or workshop. These events cover various topics within pure and applied mathematics and provide up to date coverage of new developments, methods and applications.

Lecture Notes on Diophantine Analysis Umberto Zannier, 2024

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