

Mathematics and Its Applications

Marius Iosifescu and
Cor Kraaikamp

Metrical Theory of
Continued Fractions



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Metrical Theory Of Continued Fractions

Wieb Bosma, Cor Kraaikamp



Metrical Theory Of Continued Fractions:

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Metrical Theory of Continued Fractions M. Iosifescu, Cornelis Kraaikamp, 2013-06-29 This monograph is intended to be a complete treatment of the metrical theory of the regular continued fraction expansion and related representations of real numbers We have attempted to give the best possible results known so far with proofs which are the simplest and most direct The book has had a long gestation period because we first decided to write it in March 1994 This gave us the possibility of essentially improving the initial versions of many parts of it Even if the two authors are different in style and approach every effort has been made to hide the differences Let \mathbb{O} denote the set of irrationals in $[0, 1]$ Define the regular continued fraction transformation T by $T w$ fractional part of $1/w$ $w \in \mathbb{O}$ Write T^n for the n th iterate of T $n \in \mathbb{N}$ $0 \leq n \leq 1$ with T^0 identity map The positive integers a_n $w \in \mathbb{O}$ $T^n w \in [0, 1]$ $2 \leq n$ where a_n integer part of $1/w$ $w \in \mathbb{O}$ are called the regular continued fraction digits of w Writing for arbitrary indeterminates X_i $1 \leq i$ we have $w = \lim_{n \rightarrow \infty} a_n + \frac{1}{w}$ $w \in \mathbb{O}$ thus explaining the name of T The above equation will be also written as $w = \lim_{n \rightarrow \infty} a_n + \frac{1}{w}$ $w \in \mathbb{O}$

Metrical and Ergodic Theory of Continued Fraction Algorithms Gabriela Ileana Sebe, Dan Lascu, 2025-04-22 This monograph presents the work of the authors in metrical theory of continued fractions in the last two decades The monograph cuts a particular path through this extensive theory and describes the theory in its current form for three families of continued fractions namely continued fractions N continued fractions and generalized Ruyi continued fractions The book systematically lays out the required preliminaries making the book easy to read This monograph provides a solid introduction into the theory of continued fractions The book is intended for researchers in metrical theory as well as advanced graduate students and mathematicians interested in this field

The Metrical Theory of Continued Fractions to the Nearest

Integer Andrew Mansfield Rockett, 1977 Continued Fractions A. M. Rockett, Peter Szűsz, 1992-08-01 This book presents the arithmetic and metrical theory of regular continued fractions and is intended to be a modern version of A Ya Khintchine's classic of the same title Besides new and simpler proofs for many of the standard topics numerous numerical examples and

applications are included the continued fraction of e Ostrowski representations and t expansions period lengths of quadratic surds the general Pell s equation homogeneous and inhomogeneous diophantine approximation Hall s theorem the Lagrange and Markov spectra asymmetric approximation etc Suitable for upper level undergraduate and beginning graduate students the presentation is self contained and the metrical results are developed as strong laws of large numbers

Multidimensional Continued Fractions Fritz Schweiger,2000 The book gives an up to date overview of various aspects of multidimensional continued fractions which are here defined through iteration of piecewise fractional linear maps This includes the algorithms of Jacobi Perron G ting Brun and Selmer but it also includes continued fractions on simplices which are related to interval exchange maps or the Parry Daniels map New classes of subtractive algorithms are also included and the metric properties of these algorithms can be therefore investigated by methods of ergodic theory The recent connection between multiplicative ergodic theory and Diophantine approximation presented as well as several results on convergence and Perron s approach to periodicity which has never appeared in book despite being published in 1907 Further chapters include the basic properties of continued fractions in the complex plane connections with Hausdorff dimension and the Kuzmin theory for multidimensional maps

Metrical Theory for Optimal Continued Fractions Wieb Bosma,Cor Kraaikamp,1987

Encyclopaedia of Mathematics M. Hazewinkel,2013-12-01 *Encyclopaedia of Mathematics* Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics

It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet

Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles

dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main

requirement for these articles has been that they should give a reasonably complete up to date account of the current state of

affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to

mathematics students in their first specialization years to graduates from other mathematical areas and depending on the

specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their

material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area

in question They also contain background and motivation rather than precise statements of precise theorems with detailed

definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length

contains more detailed concrete problems results and techniques Generalized Notions of Continued Fractions Juan

Fernández Sánchez,Jerónimo López-Salazar Codes,Juan B. Seoane Sepúlveda,Wolfgang Trutschnig,2023-07-20 Ancient times

witnessed the origins of the theory of continued fractions Throughout time mathematical geniuses such as Euclid Aryabhata

Fibonacci Bombelli Wallis Huygens or Euler have made significant contributions to the development of this famous theory

and it continues to evolve today especially as a means of linking different areas of mathematics This book whose primary audience is graduate students and senior researchers is motivated by the fascinating interrelations between ergodic theory and number theory as established since the 1950s It examines several generalizations and extensions of classical continued fractions including generalized Lehner simple and Hirzebruch Jung continued fractions After deriving invariant ergodic measures for each of the underlying transformations on $[0, 1]$ it is shown that any of the famous formulas going back to Khintchine and Levy carry over to more general settings Complementing these results the entropy of the transformations is calculated and the natural extensions of the dynamical systems to $[0, 1]^2$ are analyzed Features Suitable for graduate students and senior researchers Written by international senior experts in number theory Contains the basic background including some elementary results that the reader may need to know before hand making it a self contained volume

Mathematical Constants Steven R. Finch, 2003-08-18 Steven Finch provides 136 essays each devoted to a mathematical constant or a class of constants from the well known to the highly exotic This book is helpful both to readers seeking information about a specific constant and to readers who desire a panoramic view of all constants coming from a particular field for example combinatorial enumeration or geometric optimization Unsolved problems appear virtually everywhere as well This work represents an outstanding scholarly attempt to bring together all significant mathematical constants in one place

Doebelin and Modern Probability Harry Cohn, 1993 Wolfgang Doeblin one of the greatest probabilists of this century died in action during World War II at the age of twenty five He left behind several seminal contributions which have profoundly influenced the field and continue to provide inspiration for current research This book is based on papers presented at the conference Fifty Years after Doeblin Developments in the Theory of Markov Chains Markov Processes and Sums of Random Variables held at Blaubeuren Germany in November 1991 Presented here for the first time is an account of Doeblin's life and work revealing the circumstances of his tragic death in 1940 Organized into sections according to topic the papers describe both Doeblin's original contributions as well as current developments With contributions by top probabilists from sixteen countries this book will interest both researchers in probability and science historians

Probability Theory and Mathematical Statistics Bronius Grigelionis, 1990

Probability Theory and Mathematical Statistics. Vol. 1 B. Grigelionis, Yu. V. Prohorov, V. V. Sazonov, V. Statulevičius, 2020-05-18 No detailed description available for GRIGELIONIS PROCEEDINGS OF THE FIFTH VILNIUS CONFERENCE BOOK

The Unreasonable Effectiveness of Number Theory Stefan Andrus Burr, George E. Andrews, 1992 Number theory is one of the oldest and noblest branches of mathematics indeed it was already ancient in the time of Euclid for almost all of its history it has seemed to be among the purest branches of mathematics It is only within the last few decades that a large number of applications have been encountered at least by the mathematical community The applications to cryptology are now famous but it is not as well known that number theory has found an enormous number and variety of real world applications in many different fields From the Preface This book is

based on the AMS Short Course The Unreasonable Effectiveness of Number Theory held in Orono Maine in August 1991 This Short Course provided some views into the great breadth of application of number theory outside cryptology and highlighted the power and applicability of number theoretic ideas Because number theory is one of the most accessible areas of mathematics this book will appeal to a general mathematical audience as well as to researchers in other areas of science and engineering who wish to learn how number theory is being applied outside of mathematics All of the chapters are written by leading specialists in number theory and provides excellent introduction to various applications

Geometry of Continued Fractions Oleg N. Karpenkov, 2022-05-28 This book introduces a new geometric vision of continued fractions It covers several applications to questions related to such areas as Diophantine approximation algebraic number theory and toric geometry The second edition now includes a geometric approach to Gauss Reduction Theory classification of integer regular polygons and some further new subjects Traditionally a subject of number theory continued fractions appear in dynamical systems algebraic geometry topology and even celestial mechanics The rise of computational geometry has resulted in renewed interest in multidimensional generalizations of continued fractions Numerous classical theorems have been extended to the multidimensional case casting light on phenomena in diverse areas of mathematics The reader will find an overview of current progress in the geometric theory of multidimensional continued fractions accompanied by currently open problems Whenever possible we illustrate geometric constructions with figures and examples Each chapter has exercises useful for undergraduate or graduate courses

Number Theory with Computations Peter Shiu, 2024-09-02 This introductory text is designed for undergraduate courses in number theory covering both elementary number theory and analytic number theory The book emphasises computational aspects including algorithms and their implementation in Python The book is divided into two parts The first part on elementary number theory deals with concepts such as induction divisibility congruences primitive roots cryptography and continued fractions The second part is devoted to analytic number theory and includes chapters on Dirichlet's theorem on primes in arithmetic progressions the prime number theorem smooth numbers and the famous circle method of Hardy and Littlewood The book contains many topics not often found in introductory textbooks such as Aubry's theorem the Tonelli Shanks algorithm factorisation methods continued fraction representations of e and the irrationality of $\frac{1}{3}$ Each chapter concludes with a summary and notes as well as numerous exercises Assuming only basic calculus for the first part of the book the second part assumes some knowledge of complex analysis Familiarity with basic coding syntax will be helpful for the computational exercises

Mathematical Constants II Steven R. Finch, 2003 Famous mathematical constants include the ratio of circular circumference to diameter $\frac{1}{\pi}$ and the natural logarithm base e 2.718 Students and professionals can often name a few others but there are many more buried in the literature and awaiting discovery How do such constants arise and why are they important Here the author renews the search he began in his book *Mathematical Constants* adding another 133 essays that broaden the landscape Topics include the minimality of soap film

surfaces prime numbers elliptic curves and modular forms Poisson Voronoi tessellations random triangles Brownian motion uncertainty inequalities Prandtl Blasius flow from fluid dynamics Lyapunov exponents knots and tangles continued fractions Galton Watson trees electrical capacitance from potential theory Zermelo's navigation problem and the optimal control of a pendulum Unsolved problems appear virtually everywhere as well This volume continues an outstanding scholarly attempt to bring together all significant mathematical constants in one place **The Metrical Theory of Jacobi-Perron Algorithm** F. Schweiger, 2006-11-15 Neverending Fractions Jonathan Borwein, Alf van der Poorten, Jeffrey Shallit, Wadim Zudilin, 2014-07-03 This introductory text covers a variety of applications to interest every reader from researchers to amateur mathematicians

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