

Mathematics and Its Applications

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Cor Kraaikamp

Metrical Theory of
Continued Fractions



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Metrical Theory Of Continued Fractions

Andrew Mansfield Rockett



Metrical Theory Of Continued Fractions:

Metrical Theory of Continued Fractions M. Iosifescu, Cor 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 $T w = \frac{1}{w - \lfloor w \rfloor}$ 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 where $a_n = \lfloor T^n w \rfloor$ are called the regular continued fraction digits of w Writing for arbitrary indeterminates X_i in we have $w = \lim_{n \rightarrow \infty} \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{\ddots + \frac{1}{a_n}}}}$ thus explaining the name of T The above equation will be also written as $w = \lim_{n \rightarrow \infty} \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{\ddots + \frac{1}{a_n}}}}$

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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 Rnyi 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 Metrical Theory for Optimal Continued Fractions Wieb Bosma,Cor Kraaikamp,1987 *Ergodic Theory of Fibred Systems and Metric Number Theory* Fritz Schweiger,1995 Ergodic theory is part of the important number theory of mathematics It is a basic tool for describing chaotic properties of fibred dynamical systems This book first considers the notion of a fibred system and goes on to discuss basic properties such as ergodicity conservativity and the existence of invariant measures *Continued Fractions* Andrew Mansfield Rockett,1992 Metrical Theory of Some Continued Fraction Expansions Marius Iosifescu,Gabriela Ileana Sebe,Dan Lascu,2011 **On a Functional Equation Arising in the Metric Theory of Continued Fractions** Donald Bridgham Small,1968 **Topics in Classical Number Theory** Gábor Halász,1984 **Topics in Classical Number Theory** Halász Gábor (matematikus),1984 *Reviews in Number Theory 1973-83* Richard K. Guy,1984 **On the Quantitative Metric Theory of Continued Fractions in Positive Characteristic** ,2018 **Tokyo Journal of Mathematics** ,2007 Reviews in Number Theory, 1984-96 ,1997 **The Mathematical Gazette** ,1907 **Reviews in Number Theory, as Printed in Mathematical Reviews, 1940 Through 1972, Volumes 1-44 Inclusive** William Judson LeVeque,1974 *Number Theory and Combinatorics, Japan, 1984* J. Akiyama,1985 *Papers on the Metric Theory of Continued Fractions* R. Nair,1994

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