

On Continued Fractions and Their Applications

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Abstract

Continued fractions constitute a very important subject in mathematics. Their importance lies in the fact that they have very interesting and beautiful applications in many fields in pure and applied sciences. This review article will reveal some of these applications and will reflect the beauty behind their uses in calculating roots of real numbers, getting solutions of algebraic Equations of the second degree, and their uses in solving special ordinary differential Equations such as Legendre, Hermite, and Laguerre Equations; moreover and most important, their use in physics in solving Schrodinger Equation for a certain potential. A comparison will also be given between the results obtained via continued fractions and those obtained through the use of well-known numerical methods. Advances in the subject will be discussed at the end of this review article.

Keywords

Continued Fraction, Equation, Numerical Method, Roots, Series, Finite

1. Introduction

The subject of continued fractions (CF) is an old subject although many people are not aware of it. Actually, continued fractions have so many applications in algebra and in various fields such as mathematics, physics, and chemistry [1].

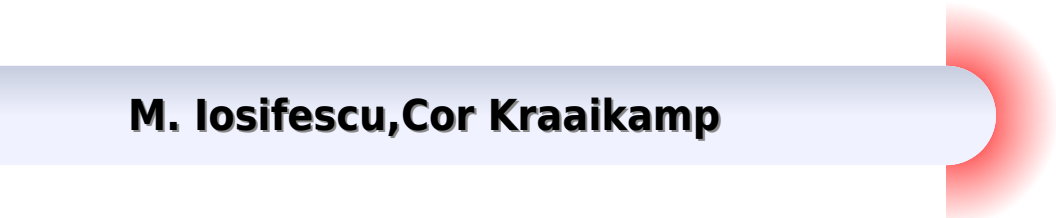
The easiest way of forming a continued fraction is by writing a certain amount in the form of a numerator and a denominator, and each denominator is composed of a numerator and a denominator and so on. Usually, the successive numerators are equal to one.

Continued fractions have a long history; they were known since the appearance of Euclidean algorithm for finding the greatest common divisor (GCD) of two numbers. That was around the year 300 B.C. [1] [2]. Research works and

*Deceased about two years ago.

Continued Fractions With Applications

M. Iosifescu, Cor Kraaikamp



Continued Fractions With Applications:

Continued Fractions with Applications L. Lorentzen, H. Waadeland, 1992-11-08 This book is aimed at two kinds of readers firstly people working in or near mathematics who are curious about continued fractions and secondly senior or graduate students who would like an extensive introduction to the analytic theory of continued fractions The book contains several recent results and new angles of approach and thus should be of interest to researchers throughout the field The first five chapters contain an introduction to the basic theory while the last seven chapters present a variety of applications Finally an appendix presents a large number of special continued fraction expansions This very readable book also contains many valuable examples and problems

Continued Fractions and Orthogonal Functions S. Clement Cooper, 2020-12-17 This reference the proceedings of a research conference held in Loen Norway contains information on the analytic theory of continued fractions and their application to moment problems and orthogonal sequences of functions Uniting the research efforts of many international experts this volume treats strong moment problems orthogonal polynomials and Laurent polynomials analyses sequences of linear fractional transformations presents convergence results including truncation error bounds considers discrete distributions and limit functions arising from indeterminate moment problems discusses Szego polynomials and their applications to frequency analysis describes the quadrature formula arising from q starlike functions and covers continued fractional representations for functions related to the gamma function This resource is intended for mathematical and numerical analysts applied mathematicians physicists chemists engineers and upper level undergraduate and graduate students in these disciplines

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

The Application of Continued Fractions and Their Generalizations to Problems in Approximation Theory Aleksei

Nikolaevich Khovanskiĭ,1963 **Continued Fractions** William Branham Jones,1984 This is an exposition of the analytic theory of continued fractions in the complex domain with emphasis on applications and computational methods Geometry of Continued Fractions Oleg Karpenkov,2013-08-15 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 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 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 **Applications of Continued Fractions** Marion Dell Wetzel,1954 *Continued Fractions* William B. Jones,Wolfgang J. Thron,1980 Continued Fractions and Their Applications William Edward Story,1870 *Formal Continued Fractions and Applications* Wyman Glen Fair,1968 **Continued Fractions and Their Applications** Lucia Palme,Tomaž Košir,Alessandro Logar,2010 Continued Fractions Meredith Ann Malmberg,1977 Continued Fractions. Analytic Theory and Applications. Forew. by Felix E. Browder William B. Jones,1980 *Continued Fractions and Their Applications* James S. Dorroh,1954 **Some Applications of Continued Fractions** Joseph J. Wolf,1951 Continued Fractions Andrew M Rockett,Peter Szusz,1992-08-08 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 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 $T w$ fractional part of n/w $w \in \mathbb{O}$ Write T^n for the n th iterate of T $n \in \mathbb{N}$ $\mathbb{O}_1 = [0,1]$ with T identity map The positive integers n and w are $T^n w$ $n \in \mathbb{N}$ $1 \leq w \leq n$

where a_1 integer part of $1/w$, $w \in \mathbb{Q}^+$ are called the regular continued fraction digits of w . Writing for arbitrary indeterminates X_i in we have $w = \lim_{n \rightarrow \infty} a_n + \frac{1}{w_n}$, $w_n \in \mathbb{Q}^+$ thus explaining the name of T . The above equation will be also written as $w = a_1 + \frac{1}{a_2 + \frac{1}{w_2}}$, $w_2 \in \mathbb{Q}^+$.

Continued Fractions Lisa Lorentzen, Haakon Waadeland, 2008 Continued Fractions consists of two volumes Volume 1 Convergence Theory and Volume 2 Representation of Functions tentative title which is expected in 2011 Volume 1 is dedicated to the convergence and computation of continued fractions while Volume 2 will treat representations of meromorphic functions by continued fractions Taken together the two volumes will present the basic continued fractions theory without requiring too much previous knowledge some basic knowledge of complex functions will suffice Both new and advanced graduate students of continued fractions shall get a comprehensive understanding of how these infinite structures work in a number of applications and why they work so well A varied buffet of possible applications to whet the appetite is presented first before the more basic but modernized theory is given This new edition is the result of an increasing interest in computing special functions by means of continued fractions The methods described in detail are in many cases very simple yet reliable and efficient

Continued Fractions William B. Jones, W. J. Thron, 1984 This is an exposition of the analytic theory of continued fractions in the complex domain with emphasis on applications and computational methods

Continued Fractions Carsten Elsner, Christopher Havens, 2025-10-13 This monograph originates from a study of the continued fraction $1/2/3$ which we call the Zopf number Its origins date back to 1929 when Siegel introduced it as a ratio of Bessel functions Continued fractions is most often styled classically and much of the content is formulated through Diophantine analysis However in this book aspects of the theory of computation can be used interchangeably through matrices and transducers We give an introduction to the computational theory of continued fractions viewed through the lens of matrices and transducers Then we move to quadratic convergents in terms of the classical rational convergents which is one of the main topics of the book With this at hand the Zopf number and its quadratic convergents are explored through Diophantine analysis This is followed by the generalized Zopf numbers which can be written compactly in terms of irregular continued fractions for which many can be shown to have representations by Hurwitz continued fractions For these Hurwitzian Zopf numbers we provide an algorithm for converting from irregular to regular continued fractions by using a special type of interrupted LR sequences Finally applications to these Hurwitzian Zopf numbers are given including a refinement of the irrationality measure by iterated logarithms Written in an accessible style the material will be of interest to students and researchers in number theory and approximation theory

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