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May 8th, 2020 - in mathematics a padé approximant is the best approximation of a function by a rational function of given order under this technique the approximant s power series agrees with the power series of the function it is approximating the technique was developed around 1890 by henri padé but goes back to ge frobenius who introduced the idea and investigated the features of rational''**how to prove that the odd continued fraction approximants**

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April 29th, 2020 - this theorem can be found in 3 p 181 and 8 p 271 note that the correspondence does not have to be so strong that the approximants of the continued fractions are padé approximants example 1 continued theorem 3 1 shows that both 3 and 4 converge to arctanz for $z \in \mathbb{C}$ '

'*history of continued fractions and padé approximants c*

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'orthogonal rational functions and continued fractions 2000

March 29th, 2020 - the interpolation padé approximation at $z = 1$ is replaced by interpolation at arbitrary points on the extended real line the orthogonal polynomials be orthogonal rational functions a continued fraction generalizing the real j fraction is associated with the orthogonal functions the approximants of the continued fraction are multipoint'

'**padé table**

May 5th, 2020 - in plex analysis a padé table is an array possibly of infinite extent of the rational padé approximants $r_{m,n}$ to a given plex formal power series certain sequences of approximants lying within a padé table can often be shown to correspond with successive convergents of a continued fraction representation of a holomorphic or meromorphic function''**on the stability and instability of padé approximants**

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April 29th, 2020 - a matrix continued fraction is defined and used for the approximation of a function f known as a power series in 1 zwith matrix coefficientsp q or equivalently by a matrix of functions holomorphic at infinity it is a generalization of p fractions and the sequence of convergents converges to the given function'

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'padé table formulasearchengine

June 1st, 2020 - history although earlier mathematicians had obtained sporadic results involving sequences of rational approximations to transcendental functions frobenius in 1881 was apparently the first to anize the approximants in the form of a table henri padé further expanded this notion in his doctoral thesis sur la representation approchee d une fonction par des fractions rationnelles in 1892 '**history of continued fractions and pade approximants**

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June 1st, 2020 - the first who seemed to realise the full significance of the method of padé approximants was lagrange in a paper of 1776 where he related them to continued fractions the method continued to be used from time to time by various mathematicians for example kummer in 1837 used padé approximants to sum series which only converged very slowly''**the history of continued fractions and padé approximants**
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