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Pade Approximant In Theoretical Physics

The Padé approximant is a rational function of numerator degree m and denominator degree n [19, 20], $y_{\text{pade}}(x) = \sum_{j=0}^m w_j x^j + b_1 \sum_{i=0}^n w_i x^i + b_2$, (2.1) where w_j , w_i , b_1 , and b_2 are parameters. For the sake of convenience, we denote the structure of the Padé approximant as $\text{Pade-}(m/n)$.

The Padé approximant in theoretical physics - CERN ...

The Padé approximants are a particular type of rational approximation. The L, M Padé approximant is denoted by $\text{tag } \{1\} [L/M] = P_L(x)/Q_M(x)$ where $P_L(x)$ is a polynomial of degree less than or equal to L , and $Q_M(x)$ is a polynomial of degree less than or equal to M .

Padé approximant - Scholarpedia

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A Taste of Padé Approximation | Acta Numerica | Cambridge Core

Abstract: Rational approximants are defined from double power series in variables x and y , and it is shown that these approximants have the following properties: (i) they possess symmetry between x and y ; (ii) they are in general unique; (iii) if or , they reduce to diagonal Padé approximants; (iv) their definition is invariant under the group of transformations with ; (v) an approximant formed from the reciprocal series is the reciprocal of the corresponding original approximant. Possible ...

AMS :: Mathematics of Computation

Padé Approximant Approximants derived by expanding a function as a ratio of two Power Series and determining both the Numerator and Denominator Coefficients . Padé approximations are usually superior to Taylor Expansions when functions contain Poles , because the use of Rational Functions allows them to be well-represented.

Padé Approximant - Michigan State University

Essentials of Padé Approximants in Theoretical Physics. 31.10.2020 by bobu - Leave a Comment ...

Essentials of Padé Approximants in Theoretical Physics

The idea of Padé approximation was formulated at the end of the 19th century within the classical theory of continued fractions (G. Frobenius, H. Padé). Fundamental results on diagonal Padé approximants were obtained by P.L. Chebyshev, A.A. Markov and T.J. Stieltjes in terms of continued fractions.

Padé approximation - Encyclopedia of Mathematics

Abstract Application of the methodology of Padé approximants to a Taylor expansion of the inverse Langevin function led to an accurate analytical expression. The approximation, retaining a finite extendibility of the Langevin spring, enables a convenient analysis of experimental data and analytical manipulations of material models.

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