

## POLYNOMIAL EXPANSIONS OF ANALYTIC FUNCTIONS%0A

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[This monograph deals with the expansion properties, in the complex domain, of sets of polynomials which are defined by generating relations. It thus represents a synthesis of two branches of analysis which have been developing almost independently. On the one hand there has grown up a body of](#)

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[the two other theorems mentioned, the first on the expansion of an analytic function in terms of polynomials, the second including the analogue of the Laurent series. In the present paper we treat \(Part A\) more in detail the analogy between the two series \(3\) and \(4\), considering arbitrary series of type \(4\), the analogue of Abel's theorem and its converse, convergence properties on circles](#)

**ON THE EXPANSION OF ANALYTIC FUNCTIONS IN SERIES OF ...**

ON THE EXPANSION OF ANALYTIC FUNCTIONS IN SERIES OF POLYNOMIALS\* BY J. L. WALSH 1.

Introduction: statement of principal method and results If  $C$  is a closed contour in the plane of the complex variable  $z$ , there

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Expanding the Gegenbauer polynomial  $C_n(x)$  in powers of  $x$ , coefficients of that expansion are the polynomials  $g_{j,n}(x)$ ,  $j=1, \dots, n$ . In this paper we give some explicit expressions for  $g_{j,n}$

**Generalized j-Factorial Functions, Polynomials, and ...**  
the polynomial expansions yield an identical recursive definition of the  $j$ -factorial coefficient triangles to that given by (3.1) [cf. (3.5)]. In order to evaluate the factorial function expansions numerically, consider that the range

**Real analytic function - Encyclopedia of Mathematics**

The properties of real analytic functions and real analytic subvarieties are deeply related to those of polynomials and real algebraic subvarieties. For instance, a deep useful property of real analytic functions is the Lojasiewicz inequality .

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The Cauchy Integral formFula and TaylorT Expansion for Entire unctioFnsF 21 6.14. Liouville Theorems and the undemenFtal Theorem of Algebra 23 Properties of Analytic unctioFnsF 25 7.15. The Power Series Representation for unctioFnsF Analytic in a Disc 25 7.16. Analytic in an Arbitrary Open Set 26 7.17. The Uniqueness, Mean-Value and Maximum-Modulus Theorems 26 urtherF Properties 29 8.18. The Open

**Asymptotic expansions of Legendre series coefficients for ...**

By the fact that  $f^{(k)} \in C([1, 1])$  for all  $k \geq 0$ , it is easy to show for each  $k = 1, 2, \dots$ , that  $f^{(k)}(x)$ , just like  $f(x)$ , has asymptotic expansions as  $x \rightarrow 1^-$  and as  $x \rightarrow 1^+$ , and that termwise differentiation  $k$  times of the asymptotic expansions of  $f(x)$  results in the same expansions. It is easy to see that the same arguments apply to interior singularities. 3. Review

**Polynomial series expansions for confluent and Gaussian ...**

In this section we introduce certain polynomial expansions which can be used for the efficient evaluation of the confluent hypergeometric functions  $M(a, c; z)$  for varying parameters  $a, c$ .

### Taylor series - Wikipedia

The Taylor series for any polynomial is the polynomial itself. Uses of the Taylor series for analytic functions include: The partial sums (the Taylor polynomials) of the series can be used as approximations of the function. These approximations are good if sufficiently many terms are included. Differentiation and integration of power series can be performed term by term and is hence