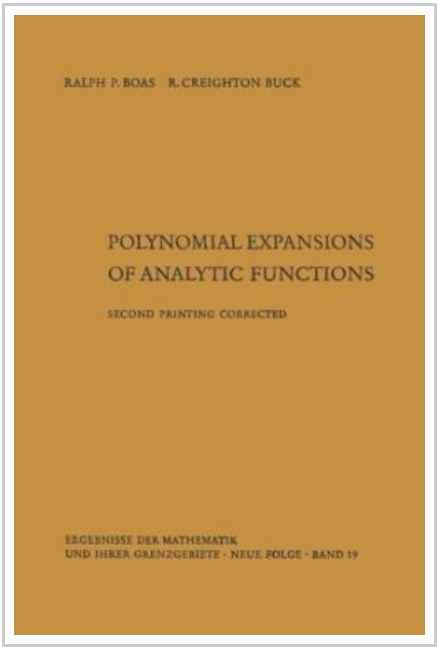

Polynomial Expansions of Analytic Functions

By Ralph P. Boas

Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Paperback. Book Condition: New. Paperback. 77 pages. Dimensions: 9.2in. x 6.1in. x 0.2in.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 results dealing with the more or less formal prop erties of sets of polynomials which possess simple generating relations. Much of this material is summarized in the Bateman compendia (ERDELYI 1, voi. III, chap. 19) and in TRUESDELL 1. On the other hand, a problem of fundamental interest in classical analysis is to study the representability of an analytic function f(z) as a series , Lc, . p, . (z), where p, . is a prescribed sequence of functions, and the connections between the function f and the coefficients c, . . BIEBERBACHs mono graph Analytische Fortsetzung (Ergebnisse der Mathematik, new series, no. 3) can be regarded as a study of this problem for the special choice p, . (z) z, and illustrates the depth and detail which such a specializa tion...

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