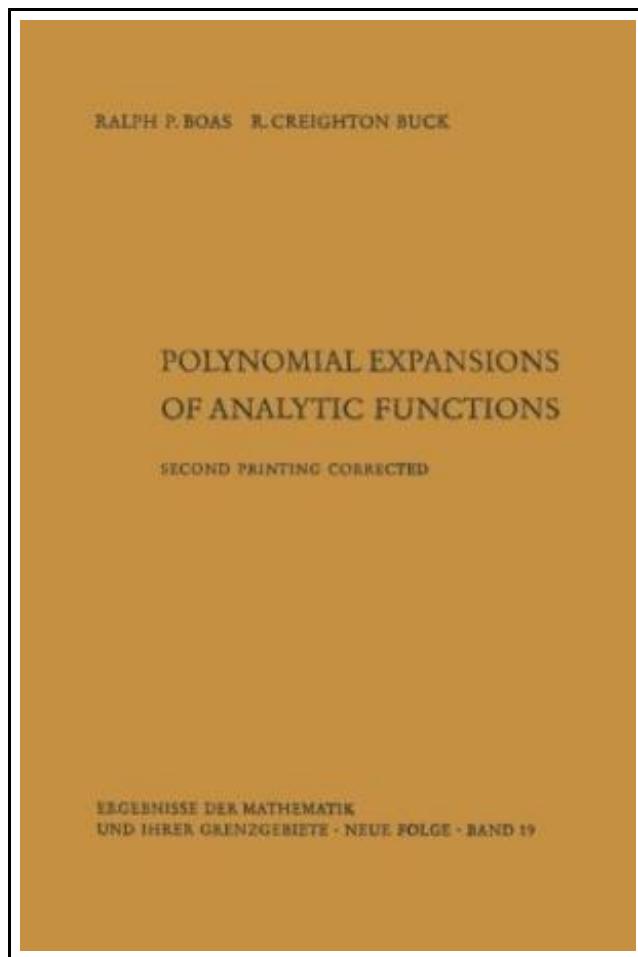


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Springer-Verlag Berlin and Heidelberg GmbH & Co. K. Paperback. Book Condition: New. Paperback. 77 pages. Dimensions: 9.2in. x 6.1in. x 0.2in. This monograph deals with the expansion properties, in the complex domain, of sets of polynomials which are 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 properties 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, $\sum c_n p_n(z)$, where $p_n(z)$ is a prescribed sequence of functions, and the connections between the function f and the coefficients c_n . BIEBERBACH's monograph Analytische Fortsetzung (Ergebnisse der Mathematik, new series, no. 3) can be regarded as a study of this problem for the special choice $p_n(z) = z^n$, and illustrates the depth and detail which such a specialization allows. However, the wealth of available information about other sets of polynomials has seldom been put to work in this connection (the application of generating relations to expansion of functions is not even mentioned in the Bateman compendia). At the other extreme, J. M. Whittaker and G. N. Watson's "A Course of Modern Analysis" (4th ed., Cambridge University Press, 1935) gives a detailed account of the expansion of analytic functions in terms of sets of polynomials which are not necessarily orthogonal. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN, or London, UK.

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