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A Contribution to the Theory of Linear Homogeneous Geometric Difference Equations (Q-Difference Equations) (Classic Reprint)

By Folke Ryde

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Contribution to the Theory of Linear Homogeneous Geometric Difference Equations (Q-Difference Equations) Introduction. A functional relation of the following type $i = nA(a:) \cdot u(a: q) = 0$, $(1) 1 = 0$ where $Af(x)$, $A(x)$, $-(0:)$ are known functions of the complex variable X and where q is a real or imaginary constant while $u(x)$ is the function to be determined, may be termed a linear homogeneous geometric difference equation (or 7 -difference equation) of the n -th order. The aim of the present paper is to bring the theory of these equations, at least on some points, to the same degree of perfection as the theories of the corresponding differential equations and arithmetic (ordinary) difference equations as they have been built up the former principally by Fuchs and Frobenius (1) the latter by Norlund (1). This equation (1) is a particular case of a general class of functional relations considered by Grevy (1), following ideas set forth by Ka-nigs (1), (2), (3). The equation (1) has then been treated in detail by Carmichael (1), who employs the method of successive approximations. He also...


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Reviews

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