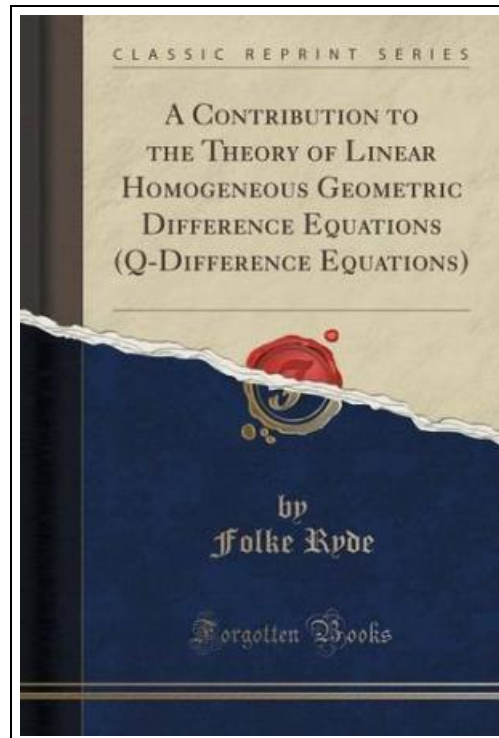


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Contribution to the Theory of Linear Homogeneous Geometric Difference Equations (Q-Difference Equations) Introduction. A functional relation of the following type $i = nA(a:) \cdot u(a: q) = 0, (1) 1 = 0$ where $Af(x), A(x), \dots (0:)$ 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 q -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 Koenigs (1), (2), (3). The equation (1) has then been treated in detail by Carmichael (1), who employs the method of successive approximations. He also indicates a possibility of solving the equation by aid of power series, which idea has then been worked out in a particular case by Mason (1). In a still more particular case power series have been used already by Heine (1) and Thomae (1), (2) and later on by Jackson (4) and Smith (1). It is, however, possible to replace the power series by another class of series, which may be termed geometric factorial series. These series appear in many respects to be more natural to the problem in question, just as arithmetic (ordinary) Such a number placed in a parenthesis close by a name...



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