1011-39-29 Paul W Eloe* (Paul.Eloe@notes.udayton.edu), Department of Mathematics, University of Dayton, Dayton, OH 45469-2316, and Ferhan Atici. Linear Fractional Difference Equations.
Fractional calculus of finite differences is briefly introduced. A family of linear fractional finite difference equations with constant coefficients is defined. Two methods of solution are developed, a method that employs the roots of a characteristic equation, and a transform method. We use the Laplace transform on time scales and not the better known z-transform. (Received July 13, 2005)