1046-39-646
E A Grove, Kingston, RI 02881, Y kostrov* (ekostrov@math. uri.edu), kingston, RI 02881, G ladas, kingston, RI 02881, and S Schlutz, providence, RI 02918. On Riccati Difference Equations With Periodic Coefficients.
We give a detailed analysis of the Riccati difference equation

$$
x_{n+1}=\frac{\alpha_{n}+\beta_{n} x_{n}}{A_{n}+B_{n} x_{n}} \quad, \quad n=0,1, \ldots
$$

where the coefficent sequences

$$
\left\{\alpha_{n}\right\}_{n=0}^{\infty} \quad, \quad\left\{\beta_{n}\right\}_{n=0}^{\infty} \quad, \quad\left\{A_{n}\right\}_{n=0}^{\infty} \quad, \quad\left\{B_{n}\right\}_{n=0}^{\infty}
$$

are periodic sequences of real numbers with (not necessarily prime) period-2, and where the initial condition $x_{0} \in$ R. (Received September 09, 2008)

