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

$$x_{n+1} = \frac{\alpha_n + \beta_n x_n}{A_n + B_n x_n} \qquad , \qquad n = 0, 1, \dots$$

where the coefficient sequences

$$\{\alpha_n\}_{n=0}^{\infty}$$
 , $\{\beta_n\}_{n=0}^{\infty}$, $\{A_n\}_{n=0}^{\infty}$, $\{B_n\}_{n=0}^{\infty}$

are periodic sequences of real numbers with (not necessarily prime) period-2, and where the initial condition $x_0 \in \mathbf{R}$. (Received September 09, 2008)