

$$\frac{dG_{\infty}}{dn} = \frac{1}{(1 - e^{-pn})^2} \cdot \left\{ \left[1 - e^{-pn} \right] \left[Q(n) - pR(n) + R'(n) \right] e^{-pn} \right. \\ \left. - \left[-\frac{Q(n)e^{-pn}}{p} + \frac{Q(0)}{p} + R(n)e^{-pn} - A \right] pe^{-pn} \right\} = 0 \quad (1)$$