

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

(1)