$$\tau = \frac{R_{n+1}}{R_n} = \frac{L_{n+1}}{L_n} = \frac{d_{n+1}}{d_n}$$

$$\cot(\alpha) = \frac{4\sigma}{1 - \tau}$$

$$l_1 = \frac{\lambda_1}{2}$$

$$B = \frac{f_n}{f_1}$$

$$B_{ar} = 1.1 + 7.7(1 - \tau)^2 \cot(\alpha)$$

$$N = 1 + \frac{\ln(B_s)}{\ln\left(\frac{1}{\tau}\right)}$$