

A more numerically stable way to find Dolph-Chebycher weights

(i) R = 10<sup>(-50/20)</sup>

(ii) 
$$x_0 = \cosh\left(\frac{1}{N-1}\cosh^{-1}(R)\right)$$
 (3.145)

(iii) 
$$B(Q_k) = \frac{1}{R}T_{N-1} \left( \chi_0 \cos(\frac{q_{k/2}}{2}) \right)$$
 (3.150)  
 $Q_k = \frac{2\pi}{N} \left[ -\frac{(N-1)}{2} : 1 : \frac{(N-1)}{2} \right]$ 

(iv) use IDFT procedure (p. 124) to find weights

$$\alpha$$
)  $DI^{B} = -10 \log^{10} (M_{4}M)$ 

b) Directing levels at with N for law sidelable terels. this is because we are forcing them higher than a uniterm weighting pattern.