## GEORGE C. DAVIS

For a load resistance Ro

For a generator load Rg

To produce a lag of  $\varphi^{0}$  in both voltage and current in the direction power is flowing through the network

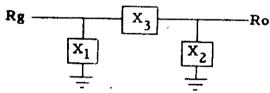
Let 
$$R = \sqrt{Rg/Ro}$$
  
 $r = \sqrt{Rg/Ro}$ 

$$\begin{array}{c|c} Rg & \hline X_1 & X_2 \\ \hline X_3 & \hline \end{array}$$

$$X_{1} = +j \frac{R}{\sin \phi} (1 - r \cos \phi)$$

$$X_2 = +j\frac{R}{\sin\phi} (1 - \cos\phi/r)$$

$$X_3 = -j \frac{R}{\sin \phi}$$



$$X_1 = -j R \sin \phi / 1 - \frac{1}{r} \cos \phi$$

$$X_2 = -j R \sin \phi / 1 - r \cos \phi$$

$$X_3 = +j R \sin \phi$$