

B120062

6) Image Pimpedance of a network is the Pinpet impedence of an Infinitely long chain of cascaded
Pidentical returnske. This is diwelly analogous
to the defination of characteristic Pimpedance as the
Pinpet Pimpedance of an Infinitely long line. (C) [v] = [2][I] and [I] = [4][v]

 $\begin{bmatrix} 4_{11} & 4_{12} \\ 4_{21} & 4_{22} \end{bmatrix} = \begin{bmatrix} 2_{11} & 2_{12} \\ 2_{21} & 2_{22} \end{bmatrix}$ $\begin{bmatrix} 2 & 1 & 1 & 222 & -221 \\ 2 & -212 & 211 \end{bmatrix}$

80, $(2)_2$ $Z_{11} \times Z_{22} - Z_{12} \times Z_{21}$ $100 \times 50 - (120)^2 = -9400$

Them, $y_{11} = \frac{222}{|z|} = -0.00532$ $4_{21} = -\frac{z_{21}}{|z|} = 0.0128$ | 4 lauameter $4_{12} = \frac{2_{11}}{|z|} = -0.0106$ $4_{12} = -\frac{2_{12}}{|z|} = 0.0128$

empeter supple

- (4 4 J . F . T

Rogini Shauma B120062