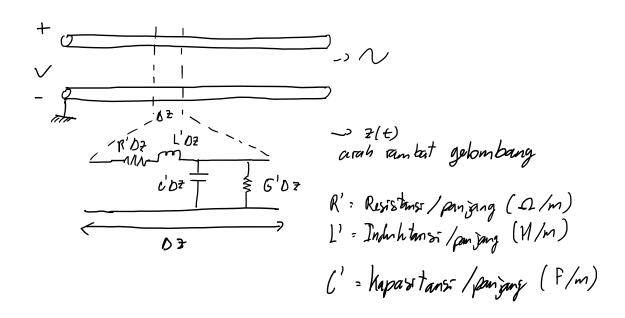
M. Hasgim Abolillah P. 1101191095 TT-43-11

Saluran Transmix

Sumber



Konstanta Primer: R', 5', L', C' → bergantung bahan (Er, Mr, J), fre kwenst, dimensi fisih

Konstanta sekunder:

a': konstanta redaman (Neper/m)

B': Konstanta phasa (rad/m)

2 Feromena  $\rightarrow$  # Atunuax (redaman): R' & 6'

R'  $\simeq$  redaman pada konduktans  $G \simeq$  redaman pada dielektrik

\* Pergeseran phasa (delay): C' & L'

Gel.	Datar	Serba sa ma
		July 100

Saluran Transmiss

$$Z_{o} = \sqrt{\frac{R' + j\omega L'}{G' + j\omega C'}} \qquad \square$$

$$\vec{F}(z) = F_0 e^{-rz} \hat{a}_x$$

$$= E_0 e^{-rz} e^{-\bar{r}/rz} \hat{a}_x$$

$$\vec{E}(3,t)$$
:  $\vec{E}_{s} e^{-d^{2}} \cos(\omega t - \beta^{2}) \hat{a}_{x}$ 

$$\mu(t) = \frac{F_0}{\eta} e^{-\gamma \frac{1}{2}} \hat{a}_{\gamma}$$

$$= \frac{F_0}{\eta} e^{-\alpha \frac{1}{2}} e^{-5\beta \frac{1}{2}} \hat{a}_{\gamma}$$

$$I(z) = \frac{\sqrt{6}}{26} e^{-\gamma z}$$

$$= \frac{\sqrt{6}}{26} e^{-\lambda^2 z} e^{-j z^2}$$

$$H(z,t) = \frac{F_0}{\eta} e^{-\alpha z} \cos(\omega t - \beta z) \hat{a}_y$$

$$I(z,t) = \frac{V_0}{z} e^{-d^2z} cos(\omega t - \beta^2z)$$

$$\begin{array}{c} R^{1}=0 \\ G^{\prime}=0 \end{array} \} \quad \mathcal{T}=\tilde{\mathfrak{J}} \, \beta^{\prime} \ \Rightarrow \ \beta^{\prime}= \, \omega \, \sqrt{L^{\prime} \, C^{\prime}} = \, 2\pi \, \xi \, \sqrt{L^{\prime} \, C^{\prime}} \end{array}$$

R' << i wL'

5' << j wc'

\* Distortionles

Tam pa distoris

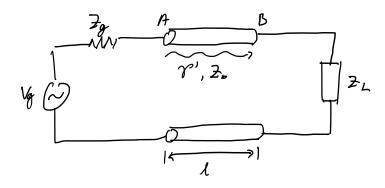
Way DISTORE

ωL' ∠∠ R' ωυ' ∠∠ G'

Skematih diagram

1.

antena kubel honkomi 2,= Z,



Vg: Tegangan genevantou

2g: Impedans generantous

$$\frac{2L}{\Gamma(21)} = \frac{V(21)}{\Gamma(21)} = \frac{V(21)}{\Gamma(21)} = \frac{V(21)}{\Gamma(21)} = \frac{2}{2}$$

$$\frac{2}{1} \neq \frac{2}{2}$$

$$\frac{2}{2} + \frac{2}{2}$$

Singal datang 
$$(V^{\dagger}, I^{\dagger}, P^{\dagger})$$
  $T = \frac{V}{V^{\dagger}} \rightarrow \frac{P^{\top}}{P^{\dagger}} = T_{L}^{2}$   
Singal pantal  $(V^{\dagger}, I^{\dagger}, P^{\dagger})$