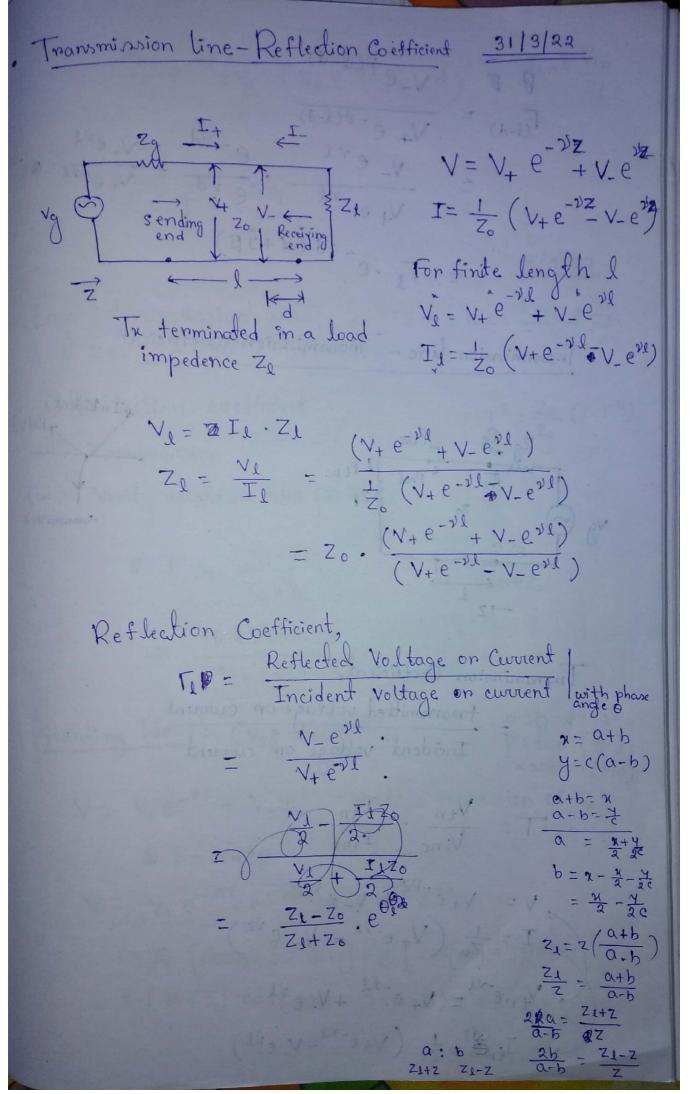


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$$V(2/t) = Ri(2,t) \Delta z + L \frac{8i(2,t)}{8(t)} \Delta z + V(2,t) + 8 \frac{6V(2,t)}{5z} \Delta z + V(2,t) + 8 \frac{6V(2,t)}{5z} \Delta z + V(2,t) + 8 \frac{6V(2,t)}{5z} \Delta z + V(2,t) + 2 \frac$$



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Transmission line - Inansmission coefficient

Transmission Coefficient,

$$\frac{2g}{h_0}$$
 - $\frac{p_0}{h_0}$ - $\frac{p_$

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$$\frac{V_{tn}}{Z_{l}}e^{-jl} = \frac{1}{Z_{o}}\left(V_{t}e^{-jl} - V_{t}e^{jl}\right)$$

$$\frac{1}{Z_{l}}e^{-jl} = \frac{1}{Z_{o}}\left(V_{t}e^{-jl} - V_{t}e^{jl}\right)$$

$$\frac{1}{Z_{o}}e^{-jl} = \frac{1}{Z_{o}}\left(V_{t}e^{-jl} - V_{t}e^{-jl}\right)$$

$$\frac{1}{Z_{o}}e^{-jl} = \frac{1}{Z_{o}}e^{-jl}$$

$$\frac{1}{$$

$$V_{0} = (A+B)^{2} \cos^{2}(Bz) + (A-B)^{2} \sin^{2}(Bz)$$

$$\phi = \arctan \left(\frac{A-B}{A+B} + \tan (Bz) \right)$$

$$\frac{dV_{0}}{d(B^{2})} = 0$$

$$on_{0} \frac{dV_{0}}{d(B^{2})} = 0$$

$$on_{0} - 2m \sin(Bz)\cos(Bz) + 2m \sin(Bz)\cos(Bz) = 0$$

$$on_{0} - 2m \sin(Bz)\cos(Bz) + 2m \sin(Bz)\cos(Bz) = 0$$

$$on_{0} + m \sin(AB) + m \sin(AB) = 0$$

$$on_{0} - 2\sin(Bz)\cos(Bz) + 2m \sin(Bz)\cos(Bz) = 0$$

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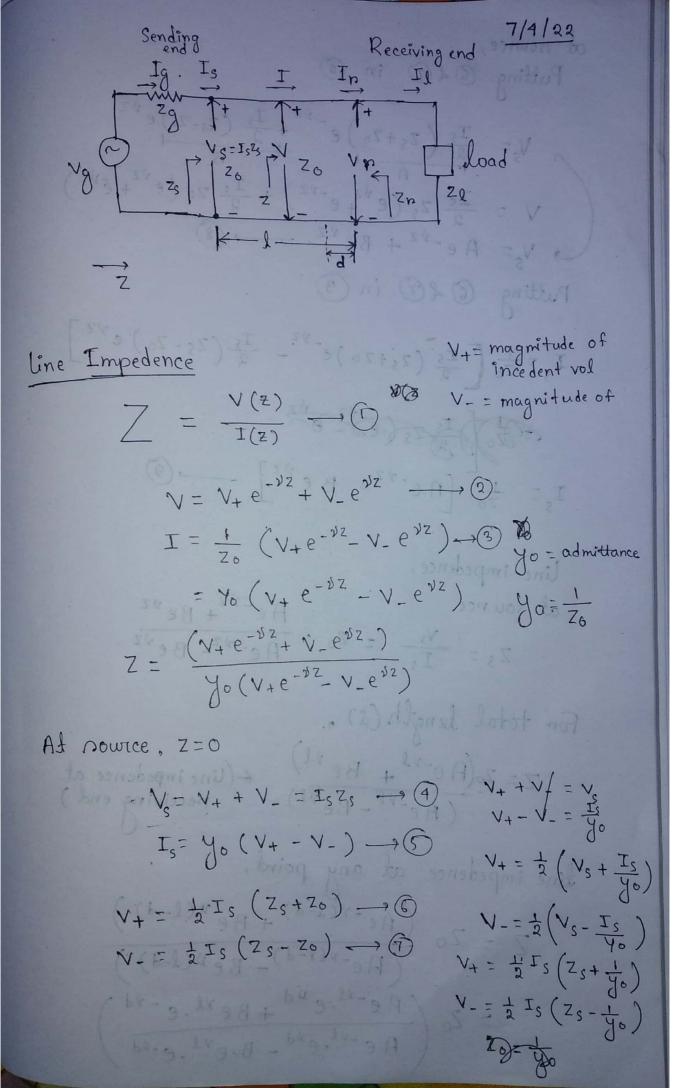
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$$on_{0} - 2m \sin($$



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Putting (C) (T) in (2)

$$V_{s} = \frac{T_{s}}{2} \left(Z_{s} + Z_{o} \right) e^{-b^{2}} + \frac{T_{s}}{2} \left(Z_{s} - Z_{o} \right) e^{b^{2}}$$

$$V = \frac{T_{s}}{2} \left(Z_{s} + Z_{o} \right) e^{-b^{2}} + \frac{T_{s}}{2} \left(Z_{s} - Z_{o} \right) e^{b^{2}}$$

$$V = \frac{T_{s}}{2} \left(Z_{s} + Z_{o} \right) e^{-b^{2}} + \frac{T_{s}}{2} \left(Z_{s} - Z_{o} \right) e^{b^{2}}$$

$$V_{s} = A e^{-b^{2}} + B e^{b^{2}} \longrightarrow (8)$$
Putting (C) (T) in (G)

$$I_{s} = \frac{1}{Z_{o}} \left(\frac{T_{s}}{2} \left(Z_{s} + Z_{o} \right) e^{-b^{2}} - \frac{T_{s}}{2} \left(Z_{s} - Z_{o} \right) e^{b^{2}} \right]$$

$$I_{s} = \frac{1}{Z_{o}} \left[A e^{-b^{2}} - B e^{b^{2}} \right] \longrightarrow (G)$$
Une impedence, at source
$$Z_{s} = \frac{V_{s}}{I_{s}} = Z_{o} \cdot \frac{A e^{-b^{2}} + B e^{b^{2}}}{A e^{-b^{2}} - B e^{b^{2}}}$$
For total length (1),
$$Z = Z_{o} \left(A e^{-b^{2}} + B e^{b^{2}} \right) \leftarrow \left(\text{Une impedence at neceiving end} \right)$$
Une impedence at any point,
$$Z = Z_{o} \cdot \frac{A e^{-b^{2}} - B e^{b^{2}} + B e^{b^{2}} \left(A e^{-b^{2}} - B e^{b^{2}} \right) - \frac{A e^{-b^{2}} - B e^{b^{2}} \left(A e^{-b^{2}} - B e^{b^{2}} \right) - \frac{A e^{-b^{2}} - B e^{b^{2}} \left(A e^{-b^{2}} - B e^{b^{2}} \right) - \frac{A e^{-b^{2}} - B e^{b^{2}} \left(A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} \right) - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - \frac{A e^{-b^{2}} - B e^{b^{2}} - B e^{b^{2$$