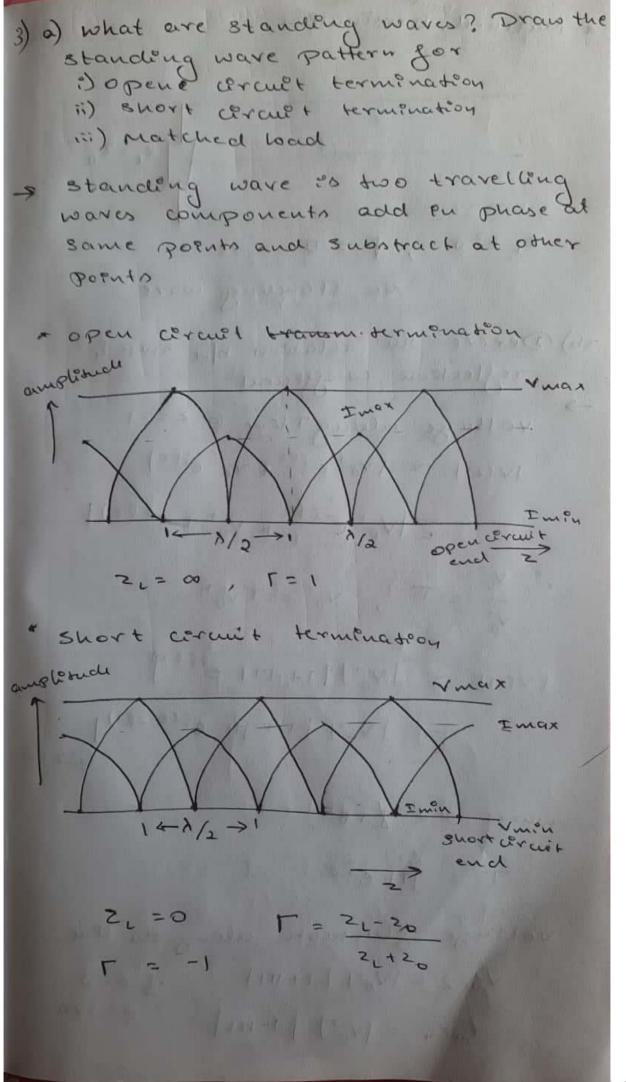
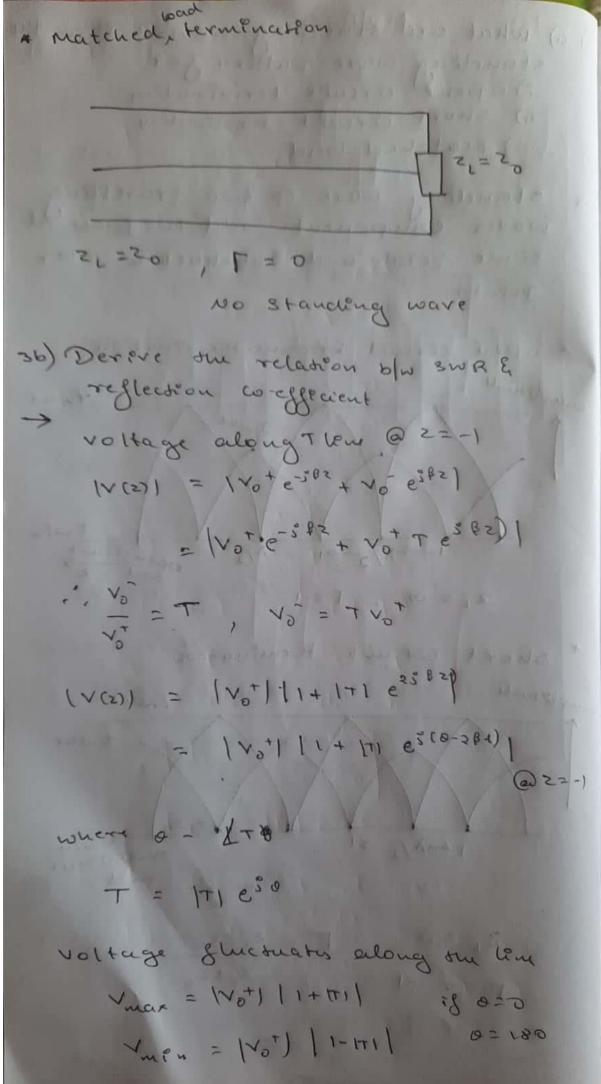
IAT-1 MWA



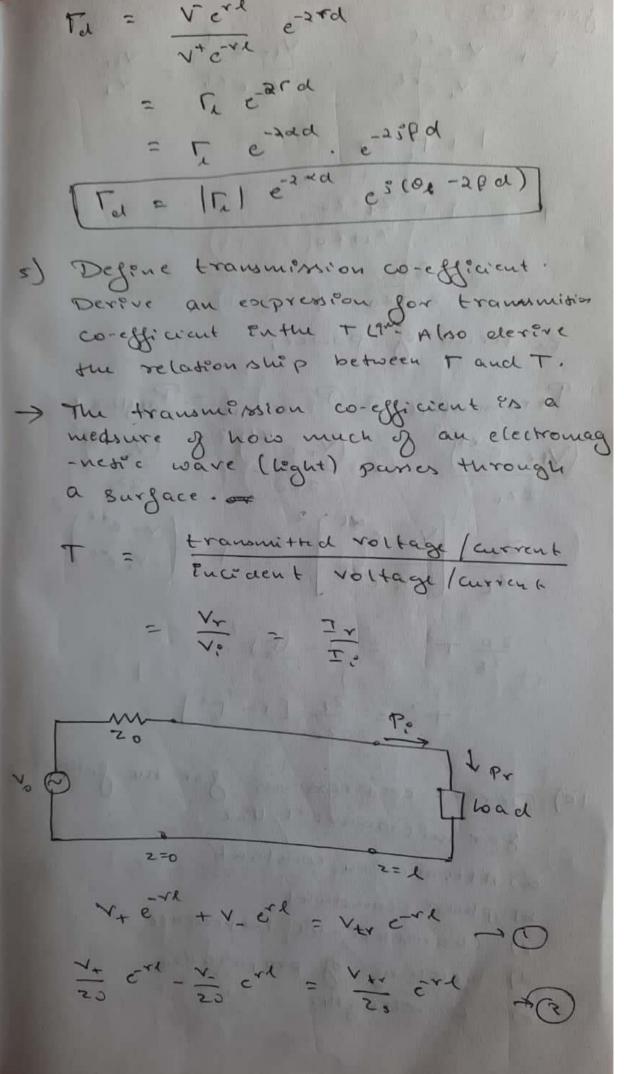


- Defene reglection co-efficient (T).

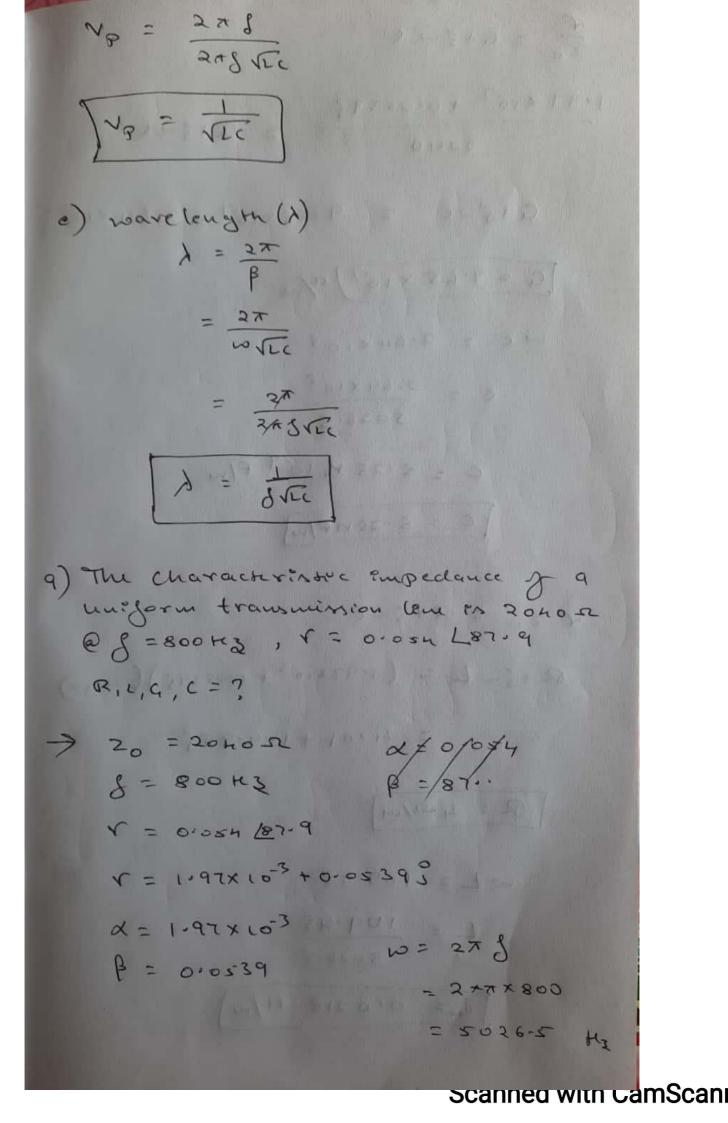
 Derive the equation for T at the load end and also equation for T at a distance of from the load end
- Darameter that discribes how much of an electromagnetic wave is reflect by an impedance discontinuity in the transmission medium.

$$Z_{1} = \frac{1}{Z_{0}} \left(\begin{array}{c} V_{1} & V_{2} & V_{3} & V_{4} &$$

- Vregleched = -Ir Vencedent I: T = vers solvery (5) Ser 20 = V+ e-11 + v- e-11 t ext 1 - Verk 5 (1-L") = 50 (HE) 21-51 = 50+201 21-50/ = SAL+50/ TL = 21-20 T. = | T.) esol T for distand d is Tol = V- ex(1-a)



from O 1 + V. ext = V+ ext = V+ 1++=+ T = 1 + 21-50 En terms of Power, Ptransmitted = Penciclent - Preglected (N+1 6-x1) 5 (N-6x1) 5 (N-6x1) 5 (N-6x1) 5 20 [Vex e-ext] 2 = 1 - (V-exx)? 50 T3 = 1- (2) 3 +2 = 3 [1- 12] 10) Derevs expressions for the following for mecrowave T len a) Attenuation constant b) phase constant c) Characteristic impedence d) relocity of propagation e) wavelength.



$$C + 3^{2} + 2 = 9.65 \times 10^{-7} + 2164 \times 10^{5}$$

$$C = 9.65 \times 10^{-7} \text{ Aym}$$

$$D = 2.64 \times 10^{-5}$$

$$C = 2.64 \times 10^{-5}$$

$$C = 5.25 \times 10^{-9} \text{ F/m}$$

$$C = 1.97 \times 10^{-3} + 0.05295 (2000)$$

$$= 1.09.95$$

$$C = 1.09.95$$

$$C = 1.09.95$$
an