Direction of Propogation is $\vec{E} \times \vec{b} = 0 + 0 + 0 + 1 = 0$ Propision the t = 0

C. Complex
$$RI = \hat{h}(x) = m(x) + -i(x(x))$$

$$C_{b} = \frac{6.5}{12} MM$$
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3.a.

Scattering efficiency = 3.605

Closs section = TT (2MM) = TT AM

Scottering Coefficient = 1.052 x 10 11

6. Matlab code attached

4.9

b. Matlab code attached

C .