

EE 405: Microwave Transmission

Assignment 5

(7th week of term xxx)

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Due date is posted in WebCT

Solve the following problems. Show all steps of your solutions.

- (1) Find the expression on E_x and H_y for a plane wave propagating in a lossy dielectric medium.

(Use the class note to see how similar expressions are derived for related media with different conditions)

- (2) For an obliquely incident wave, shown in figure below, derive the expression for the reflection coefficient (Γ) and transmission coefficient (T).

