MIDTERM

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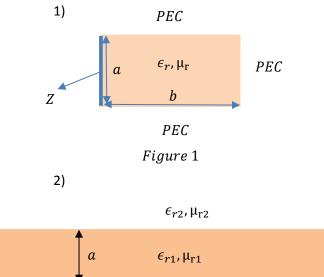


Figure 2

Derive the TE and TM modes for the waveguide given in Figure 2. Note that left side of the waveguide is ended with an impedance surface with impedance of Z.

Derive the TE and TM modes for the grounded dielectric slab given in Figure 3. (Hint: You can search "Grounded Dielectric Slab" from books, or

from internet.) PEC