

ECEn 560
Electromagnetic Wave Theory

Homework #23

Due April 12, 2016 (may be turned in late for half credit)

1. (a) Find the first few resonance frequencies of a cubic PEC cavity with dimensions 1 cm. (b) What are some applications of cavity resonators? List a few that you can find in the literature.
2. From the history of quantum physics, what was one of the key predictions of QED? How accurately has the prediction been verified?
3. Look up a paper on an application of THz waves to share on the last day of class. Email a link to the paper or pdf to me before class.