

Physics 262

Homework #1

Show your work.

Before doing this week's homework, I encourage you to review some concepts from Physics 262. Make sure that you can do the following exercises from H&H: 1.1, 1.2, 1.3 (p. 6); 1.6 (p. 7), 1.10 (p. 13), 1.12 (p. 23), 1.15 (p. 27). For this week, turn in:

1. Horowitz & Hill exercise 1.11 (p. 17).
2. 1.17 (p. 33).
3. 1.19 (p. 35).
4. 1.23-24 (p. 40).
5. 1.26 (p. 42).
6. For the notch filter in exercise 1.26, find Q by explicitly solving for the -3dB points (like we did in class).