EE331 — Homework #12 / Due Wednesday, Apr. 15, 2020 at the beginning of class

- 1. Ch. 5, (a) Prob. 38(b) and (b) Prob. 43(a).
- 2. (a) Ch. 6, Prob. 6.36 and (b) calculate the capacitance per unit length of a cylindrical capacitor with a dielectric constant of  $\varepsilon_r = 2$ , an inner radius of 5 mm, and an outer radius of 10 mm.
- 3. Redo Example #24 but with b = 10 mm (i.e., a smaller outer radius). Compare your answer with the result in part (b) of Problem #2. Hmm.
- 4. Ch. 6, Prob. 6.7.
- 5. Ch. 6, Prob. 6.16.
- 6. Redo Example #26, but let a = 3 m, b = 6 m, and  $V_0 = 5 \text{ V}$ .