Homework 9

EE381-1 Electric & Magnetic Fields (Fall 2018) Friday, October 26, 2018

- 1) 5.7 (d) Also, find \overline{J} if the bar is along the z-axis with the higher potential at top.
- 2) 5.16 As part of the solution, find equations for \overline{E} , \overline{D} , and \overline{P} .
- 3) 5.21 Also, determine χ_e , \overline{E} , \overline{P} , and ρ_v .
- 4) 5.31
- 5) 5.34
- 6) 5.38 Hint: gradient can be used to find surface normal(s).
- 7) 5.39
- 8) 5.44

Due Wednesday, October 31, 2018.