

Homework 13 (Extra Credit)
EE381-1 Electric & Magnetic Fields (Fall 2018)
Friday, November 30, 2018

- 1) PE8.8 Also, find the vector magnetic fields in each region.
- 2) PE8.10 Hint: Find inductance and energy for 1 m length of solenoid.
- 3) 8.33
- 4) 8.43 Hint: Find inductance of 1 m length of coaxial cable.
- 5) 8.44 As part of solution, find magnetic flux through loop due to line current.
- ~~6) 8.51 As part of solution, draw the equivalent magnetic circuit assuming fringing occurs, use 'rule of thumb' given in class.~~

Notes:

- If done, this extra credit opportunity will replace your lowest HW *or* quiz grade (as best advantages your overall grade).
- There will be at least one question dealing with this material on the final.
- **Due Tuesday, December 4, 2018 by 5 pm at my office (EP325).**