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EEL 5390 – Special Topics (FDTD)
HW #4

Notes:

P1 – I have broken up my documents into three documents, Maxwell Equations Derivation, 1D Derivation, and Sources. I believe that this will help me most in the future. So the Next major document should be 2D Derivation then 3D. I am still battling image floating formatting, but got I have nice section headers, Yay!!!.

P2 – I was battling “EXPLOSION!!!!” for the last couple of days. The cause was the manual calculation of dz , dt , and τ . Even though they all seem to fit the relevant conditions they did not work. I will have to explore further on next HW assignment. I used the parameters you gave and it worked just fine. Probably should have just used them in the first place, but I was trying to be all fancy.