Advanced Computation: Computational Electromagnetics

Rules, Policies and Procedures

Outline

- The Textbook
- Grading
- Homework, Exams & Extra Credit
- MATLAB Codes
- Final Project
There is no official textbook for the class because no such textbook exists.

The “textbook” is therefore the course website.
HOMEWORK IS 50% OF YOUR FINAL GRADE!!!!!!!
Homework, Exams & Extra Credit

Homework Rules

• Assigned on a weekly basis.
• Homework is very cumulative. It is not an option to miss a homework.
• Late Homework
  • -10% every day late.
  • Grade of zero after three days.
  • I need to distribute solutions as soon as possible.
• Homework is 50% of your final grade. The homework IS this class.
• Do your own work. Do not copy from other students.
Homework Format

• Must be a paper copy.
• Must have a cover page.
  • Name, course information, assignment #, date, etc.
• Put problems in the proper order.
• Be neat and well organized.
• Providing computer codes is optional.
• **ALL CODES MUST GO INTO AN APPENDIX!**
• Construct homework as if you will need to relearn the material 10 years from now and have only your notes and homework.
• Stapled at upper-left corner with no additional binding.

Exams

• All exams are take-home.
• Exams follow the exact same format and rules as the homework.
• Cannot provide help on an exam.
Extra Credit?

No additional assignments will be given in this class for extra credit.

Extra credit is given in the following circumstances:

• You catch a mistake in the course materials.
• Your assignments go sufficiently above and beyond what is asked.

MATLAB Codes
Rules For Your MATLAB Codes

- You must use MATLAB for all homework and exams.
- Programs must follow the block diagrams in the class exactly.
- Codes must be neat, well organized, and well commented.
- Unless otherwise instructed, code must be a single program and NOT broken into separate functions.
- Try to use the same variable names as the notes and the instructor.
- Need help? If you are stuck and your codes follow ALL of the above rules, e-mail me your MATLAB code.
  - rcrumpf@utep.edu
  - Cannot provide help on exams.

Structure of the Ideal Code

- Initialize MATLAB
  - close all unnecessary windows
  - clear memory
  - open a figure window
  - define units and constants

- Dashboard
  - Define what is to be learned
  - Define source parameters
  - Define device parameters
  - Define method specific parameters

- Rest of Code

- Save/Show Results

Only numbers. No calculations!

Only calculations. No numbers!
The Final Project

• Purpose – to learn, practice, and share a topic outside of what was taught in class.
• Project should be summarized in Power Point.
  • Must be complete enough that another student from the class can reproduce your work if needed.
• Final Project = Final Exam
• Projects presented during the final exam period.
• May work alone or in teams, but teams must do proportionally more work.
• Must submit all electronic files to course instructor by 5:00pm day before your presentation.
• No late projects will be accepted.
• Get started early!!