

ENEE 381 ELECTROMAGNETIC WAVE PROPAGATION

Fall Semester 2004. Lecture Times: TuTh 12:30 - 1:45, CSI 2117

Discussion Sections: 0201:M 2:00pm- 2:50pm (MTH 0401) 0202:F 2:00pm- 2:50pm (JMP 1109)

Instructor: Professor Christopher C. Davis, davis@eng.umd.edu,
<http://www.ee.umd.edu/~davis>

Office: 2401 A.V. Williams Building, 405-3637

Office Hours: TuTh 2:00pm - 3:30 pm, and by appointment. I am generally available to talk with students when I am in my office.

T.A.: sanjay varma srv@glue.umd.edu. Attend your first discussion section for further details.

If you have a documented disability and wish to discuss academic accommodations with me, please contact me as soon as possible.

This course provides an overview of the essential concepts of electromagnetic waves needed for an understanding of fundamentals and devices, and as a foundation for further study.

Many homeworks in the class will require computer analysis. and graphical results presentation. I encourage the use of software such as Mathcad, Mathematica, or Matlab.

Examinations and Projects

There will be two mid-semester examinations on dates to be decided later.

The final examination is in class on Friday, December 17 from 1:30-3:30 pm .

Students in the class are required to honor the University of Maryland Code of Academic Integrity. Details of this code are available at the University's web site.

Anyone who misses an examination for a *valid* reason (illness or family emergency) will be permitted to take a cumulative makeup examination just before the final examination. Students should provide notification in advance if they will have to miss an assignment or examination for reasons of religious observance.

Grading

Mid-semester examinations 25% each, Final examination 40%, Homework 10%.

Homework

Performance in homeworks will be the deciding factor in borderline cases. In addition, selected homework problems will appear on examinations. If you do not attempt the homework problems conscientiously, you will not do well in the class. I encourage team work in understanding the class material, but *you must submit a final version of your own homework, worked out by you*. Submission of an identical homework to that of another student is plagiarism, and will cause a subtraction of 5 percentage points from your final score for a first occurrence, and a greater reduction for a second offense.

When a homework is due, if it is handed in one day late, your score on that homework will be reduced by 25%, two days late 50%, three days late 75%. After three days it will not be graded.

TEXT: *Fields and Waves in Communication Electronics*, by S. Ramo, J.R. Whinnery, and T. Van Duzer, 3rd Edition, John Wiley, 1994.

Chapters 3,5,6, and 8 will be covered entirely, plus most of Chapter 4, sections 7.1 - 7.6, 9.1, 9.2, 10.1-10.5, 12.1-12.8, and 13.1-13.6, as time permits.