ECE 4350A Fall 2022  
Electromagnetic & Microwave Applications

Location: VL C341  
Schedule: T/Th 3:30-4:45p  
Additional Reading: "Electromagnetics, Microwave Circuit and Antenna Design for Communications Engineering", P. Russer, Artech House, 2003

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Overview

- Transmission Lines
- Plane Waves
- Dielectric Interfaces
- Waveguides
- Cavities
- Microwave Circuits (Couplers, Filters)
- Antennas (Dipoles, Yagi-Uda, Log-Periodic, Arrays)
- Optical Waveguides, Optical Fibers
- Wireless Communication Standards and Devices
- Commercial CADs for EM/RF Applications
- Wireless communication platforms/Wireless Sensors
- Internet of Things/"Smart Skins"
- Large-Area Inkjet Printed RF Electronics
- RF Applications of Nanotechnology

E-Mail List
ece4350a@lists.gatech.edu

Grading Policy

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Homework Policy

Problems/Homeworks will be posted on Canvas and will be due during the class period on the assigned dates. Late Homework will not be accepted without justification.

Exams

There will be 2 (two) in-class exams on September 22 (Thursday) and November 1 (Tuesday). The final will take place on December 13 (Tuesday) from 2:40-5:30p.

Smith Charts

Students are required to obtain impedance ("Smith") charts at the bookstore. These will be used in the second and the third week of the class.

If you have questions or comments about this course, please send e-mail to entze@ece.gatech.edu