Engr. 339: Microwave Engineering - Spring 1972

Grading: There will be 2 quizes and a nominal 2 hr. final exam, plus homework problems to do. The final grade will be determined on one of the following two basis, whichever gives the highest score:

2 Quizes - 1/3 of final grade
Final exam - 1/3 " " "
Homework - 1/3 " " "

or

2 Quizes - 1/2 of final grade
Final exam - 1/2 " " "

Fri. Feb. 4 - Maxwell's equations, sinusoidal fields, plane waves, reflection from a dielectric interface
Sec's 2.1, 2.2, 2.4, 2.7, 2.8

Mon. Feb. 7 - Energy and power, Poynting vector,
Sec. 2.5,

Wed. Feb. 9- Skin effect, reflection from a conducting plane. Sec. 2.9

Fri. Feb. 11- Power loss in a conductor, Boundary conditions at dielectric-air and conductor-air interfaces. Sec's 2.6, 2.9.

Mon. Feb. 14- Classification of wave solutions, Sec. 3.1.

Wed. Feb. 16 - Field analysis of a coaxial transmission line. Sec. 3.2

Fri. Feb. 18- Distributed Circuit Analysis of transmission lines, Sec. 3.3.

PROBLEMS 2.14, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10

These problems are due Mon. Feb. 21.