ECE 4990/6990

Antennas

Quiz #3

I. Loop Antennas
   A. Magnetic vector potential
   B. Far fields
   C. Dual and equivalent sources
   D. Loop performance parameters
      1. Radiation intensity function
      2. Radiation resistance
      3. Directivity
   E. Impedance and efficiency

II. Arrays
   A. Pattern multiplication theorem
   B. Array factor
   C. Uniform array types
      1. Broadside array
      2. Endfire array
   D. Hansen-Woodyard endfire array
   E. Non-uniformly excited arrays
      1. Binomial array
      2. Dolph-Chebyshev array

III. Other Antennas
   A. Folded dipole
   B. Traveling wave antennas
      1. Magnetic vector potential
      2. Far fields
      3. Radiation resistance
      4. Terminations
   C. Yagi-Uda array
   D. Log-periodic antenna

(1) 8.5x11" formula sheet allowed
Integral tables provided
Differential operators provided