- 2.32 A base station cellular communication systems *lossless* antenna has a *maximum gain* of 16 dB (above isotropic) at 1,900 MHz. Assuming the *input power* to the antenna is 8 watts, what is the *maximum* radiated power density (in watts/cm²) at a distance of 100 meters? This will determine the safe level for human exposure to electromagnetic radiation.
 - Modify problem so that the maximum gain is 15 dBi and the input power is 10 W. Also, determine the maximum radiation intensity.