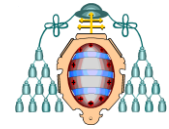




Electromagnetic Compatibility Testing



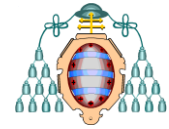
Exercise 1: Calculating Shielding Effectiveness of Copper Foil [*far field*]

Calculate the shielding effectiveness of a sheet of 50mm copper foil.

$\sigma = 5.7 \times 10^7$ S/m, at 200 MHz



Electromagnetic Compatibility Testing



Exercise 2: Shielding a Low-Frequency Magnetic [*near field*]

A transformer generating primarily a magnetic field is located 15 cm from a shielding structure. The shielding structure is made from a $t=12\text{mm}$ thick sheet of copper. Estimate the shielding effectiveness of this structure at 1.0 kHz.