## Microwires multilayers structure for two frequencies absorption

## Antonio Hernando

IMA-UCM, Spain

antonio.hernando@externos.adif.es

As is known the control of the dielectric constant by tailoring mixtures of metallic microwires with paint allow us to produce radar antireflectant coating for metallic surfaces. The characteristics of the absorption peaks obtained and the laboratory is discussed. An experiment carried on a Spanish Navy boat confirms the reliability of the method.

Finally it is shown how the use of multilayers structures leads to microwave absorption at two different frequencies. The results obtained after painting a 70 m length ship clearly illustrates the accuracy that can be achieved in the absorption spectrum.