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Abstract of Published Article

Microwave absorbing paints and sheets based on polyaniline: measurement and simulation of

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Abstract:

This paper presents the processing and characterization of microwave absorbing paints and sheets based on magnetic and dielectric materials. Two different paint formulations containing carbonyl iron as matrix, were prepared. Silicone sheets were also prepared using a polymer as filler. Measurements of the electromagnetic parameters were also carried out. Simulations for the materials were also carried out. The results correlate the electromagnetic parameters with the material's radar absorbing potential. 80% of the incident electromagnetic radiation and the material's radar absorbing potential.

Keywords:

Absorbing media, Radar absorbing material, Conducting materials.



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