



ABSORBENT MATERIALS OF MICROWAVES

Multipath noise suppression and rear radiation reduction.

Technological benefits

Optimized applications

Reducing interference.
Improved performance.
Protection of individuals.

Efficiency

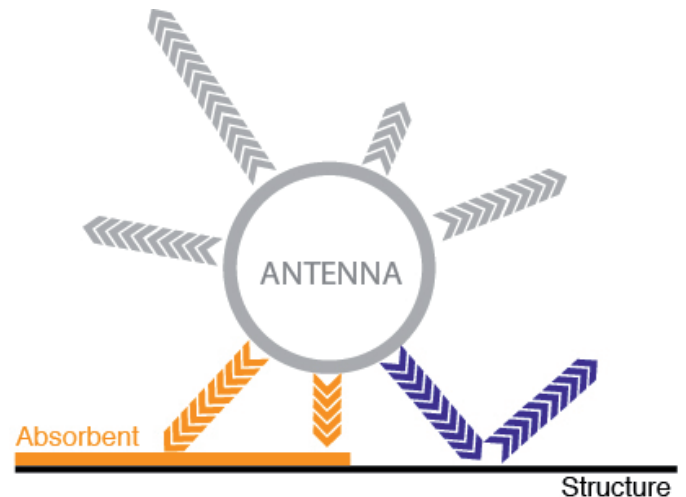
Clever shape material.
Sectoral design and/or with blocks (slab).
Each sector / slab absorbs polarized waves TE and / or TM over a given frequency band and for a given angular range.



Invention overview

The radiated radiofrequency waves transmitted or received can be disturbed by the external environment of the antenna.

The disturbance can reduce performances or cause health effects. The material is designed to absorb parasitic waves from the antenna, or external parasitic waves arriving on the antenna.

Depending on the position of the antenna, the material is specially designed to obtain a maximal reduction of interactions antenna / structure.



 Parasite radiation
 Reduction of the parasite radiation

Reduction of the parasite radiation due to the supporting structure (suppression of reflected waves).

Commercial benefits

Economic

Use of a generic fabrication method for specific needs: improved performance, efficiency gain.
Flexible and adaptable to different structures.
Compact size and light weight.

Potential applications

Any area where the radiated RF waves transmitted / received may be disturbed by the external environment of the antenna.

Protection of individuals.

Medical, avionics, military, aerospace, etc

TRL : 3/4

Invention available under license.