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A frequency-selective surface (FSS) is any thin, repetitive surface (such as the screen on a microwave oven) designed to reflect, transmit or absorb electromagnetic fields based on the frequency of the field.In this sense, an FSS is a type of optical filter or metal-mesh optical filters in which the filtering is accomplished by virtue of the regular, periodic (usually metallic, but sometimes ...

Frequency selective surface - Wikipedia
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Webinar: Frequency selective surface: Theory and ...
"Frequency selective surfaces (FSS) are periodic arrays of resonant elements with a specific (resonant) reflection/transmission response when illuminated by electromagnetic energy. FSSs have been utilized for different applications such as spatial filters, reflectors, lenses, radomes, and more recently, as sensors. FSS-based sensors have shown potential for numerous applications in structural ...

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Abstract: A novel frequency selective surface (FSS) based on substrate integrated waveguide (SIW) technology is investigated with simulation and experiment. The periodic unit is made of a SIW cavity with slots on the top and bottom surfaces, and the whole FSS is fabricated on a microwave substrate with standard PCB process.

Theory and experiment of novel frequency selective surface ...
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BEN A. MUNK, PhD, is Professor of Electrical Engineering at Ohio State University and a major contributor to the theory and design of periodic structures, particularly frequency selective surfaces, circuit analog absorbers, and phased arrays.

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