Abstract
In this paper, fractal FSS has been designed using recursive technology and this frequency selective surface (FSS) acts like a multi band-reject filter. The proposed design has been investigated theoretically using Ansoft Designer® software in which the reflection and transmission band has been predicted by the method known as Method of Moment. In comparison to the reference square patched Frequency Selective Surface (FSS) without slot, this FSS with fractal design can provide size reduction up to 83.78%. Efforts have been given to achieve Size reduction, Bandwidth enhancement and multifrequency operation in a single FSS structure.

References


Index Terms

Computer Science
Computing, Communication

And Sensor Network

Keywords

Bandwidth (bw) Fractal Frequency Selective Surface (fss) Multifrequency Resonating Frequency
Size Reduction