

# **Abstract**

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## **A new Compact Multi Resonance H-Patch Filtenna**

in this paper, new compact H-slot patch microstrip filtenna configurations have been analyzed, investigated and optimized using the CST\_MWS. The proposed H-slot patch filtenna has been mounted on FR-4 substrate having either full ground defective ground with a single rectangular slot. Our filtenna configurations resonate at multi-frequencies of different narrowband and/or broadband. The presented filtennas are very simple structures and cover the 3G/4G wireless frequency band.