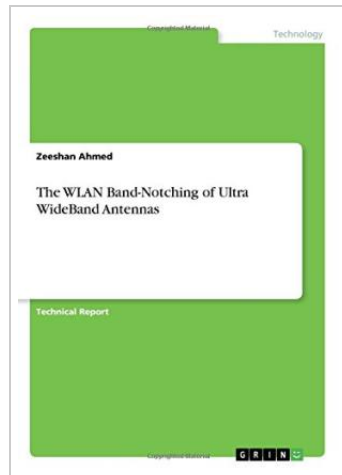



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The WLAN Band-Notching of Ultra WideBand Antennas

By Zeeshan Ahmed

GRIN Publishing Jun 2016, 2016. Taschenbuch. Condition: Neu. Neuware - Technical Report from the year 2013 in the subject Engineering - Communication Technology, grade: A, , course: Electrical Engineering, language: English, abstract: In this report three staircase UWB antennae with WLAN band notch characteristic, each having different ground planes, are presented. These include a Co-Planar Waveguide-fed antenna, a Transmission Line-fed antenna with partial ground plane having a Defected Ground Structure (DGS) and a Transmission Line-fed antenna with slotted ground plane. All the band-notched antennae have rejection characteristics at 5 GHz WLAN band (5.15GHz to 5.35GHz and 5.725GHz to 5.825 GHz) while the antenna with slotted ground plane rejects the 4.9GHz WLAN band (4.94GHz to 4.99GHz) as well. In all the three antennae the WLAN band is notched by embedding a U-shaped slot in the transmission line. The proposed antennae are carefully designed, simulated and tested in order to fulfill the UWB antennae's pre-defined criteria. The Simulated and Measured results are found to be in good agreement which show the validity of the suggested designs. Since the commencement of human civilization, humankind attempts to communicate with each other. It is the process of communication, namely the sharing of information, emotions and...



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