

عنوان مقاله:

Title: Reconfigurable Slot Antenna with T-Shaped Strip in The Ground Plane for UWB/Wimax Applications

محل انتشار:

همایش یافته های نوین در هوافضا و علوم وابسته (سال: 1394)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

A novel frequency reconfigurable antenna with switchable frequency bands for WiMAX and UWB performances is designed in this letter. To generate a wide usable fractional bandwidth of 2.8-12.13 GHz, the slot on the ground plane is a rectangular slot with step at above sections. In the proposed structure a rectangular strip that act as a parasitic stub, placed on the ground plane. To achieve a reconfigurable function, a PIN diode is utilized across the rectangular strip and ground plane. When this PIN diode is biased forwardly, the parasitic stub transforms to a T-shaped strip, and by changing to this new structure, WiMAX frequency (2.85-3.75) GHz is excited. The designed antenna has a small size of 20×20 mm² that printed on a FR4 substrate

کلمات کلیدی:

A novel frequency reconfigurable antenna with switchable frequency bands for WiMAX and UWB performances by a PIN diode on the ground plane is presented

لینک ثابت مقاله در پایگاه سیویلیکا:

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