

Abstracts

A reconfigurable patch antenna using switchable slots for circular polarization diversity

Fan Yang and Y. Rahmat-Samii. "A reconfigurable patch antenna using switchable slots for circular polarization diversity." 2002 Microwave and Wireless Components Letters 12.3 (Mar. 2002 [MWCL]): 96-98.

A novel design of a microstrip patch antenna with switchable slots (PASS) is proposed to achieve circular polarization diversity. Two orthogonal slots are incorporated into the patch and two pin diodes are utilized to switch the slots on and off. By turning the diodes on or off, this antenna can radiate with either right hand circular polarization (RHCP) or left hand circular polarization (LHCP) using the same feeding probe. Experimental results validate this concept. This design demonstrates useful features for wireless communication applications and future planetary missions.

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