

# Abstracts

## Experimental investigation of a varactor loaded reflectarray antenna

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*L. Boccia, F. Venneri, G. Amendola and G. Di Massa. "Experimental investigation of a varactor loaded reflectarray antenna." 2002 MTT-S International Microwave Symposium Digest 02.1 (2002 Vol. I [MWSYM]): 69-73 vol.1.*

A new approach for beam steering in reflectarray applications is introduced in this paper. The progressive phase distribution is achieved by loading each microstrip patch element with a varactor diode on the radiating edge. In the following, the scattering characteristics of a single varactor loaded patch antenna will be presented. As a proof of concept, the beam steering capability of a five elements linear reflectarray has been experimentally investigated.

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