

# Abstracts

## Nonleaky conductor-backed coplanar waveguide-fed rectangular microstrip patch antenna

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*D.R. Jahagirdar and R.D. Stewart. "Nonleaky conductor-backed coplanar waveguide-fed rectangular microstrip patch antenna." 1998 Microwave and Guided Wave Letters 8.3 (Mar. 1998 [MGWL]): 115-117.*

A new arrangement for exciting microstrip patch antennas is presented here that allows easier integration with monolithic microwave integrated circuits (MMIC's). The non-leaky conductor-backed coplanar waveguide (NL-CBCPW) is described with emphasis on avoiding the leakage of power. This structure is utilized for feeding a rectangular patch through an aperture in the back plane. The full-wave analysis of this arrangement was carried out using the moment method in the spectral domain. The theoretical and measured results of such a patch are given.

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