

A frequency autonomous retrodirective array transponder

K.M.K.H. Leong, R.Y. Miyamoto, Seong-Sik Jeon, Yuanxun Wang and T. Itoh. "A frequency autonomous retrodirective array transponder." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 1349-1352 vol.2.

Retrodirective arrays are able to radiate a signal in response to a signal transmitted by an interrogator back toward the transmitter position with no a priori knowledge of the arrival direction. We present a novel architecture that enables the retrodirective array to respond to an interrogator at the same transmitted frequency with no previous knowledge of the transmission frequency. The frequency agile prototype array shows excellent retrodirectivity at various frequencies.

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