Abstracts

10 and 2.45 GHz short baseline interferometers for positioning systems

A. Benlarbi-Delai, J.C. Cousin, R. Ringot, A. Mamouni and Y. Leroy. "10 and 2.45 GHz short baseline interferometers for positioning systems." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1867-1870 vol.4.

The positioning process is often associated with the Global Positioning System (GPS) or other heavy techniques needing a central monitor station and precise reference time. A simpler real time method of positioning is described in this paper. Based on interferometry, this method is first tested by means of a prototype, operating at 10 GHz, with an area under investigation of 1 square meter, and an accuracy between 1 and 2 centimeters. The extension of the area under investigation toward several square decameters has been obtained, at 2.45 GHz, with a second prototype. For the both situations the size of the system does not exceed 16 cm/spl times/16 cm.

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