

Abstracts

Radio-wave beam shaping using holograms

J. Meltaus, J. Salo, E. Noponen, M.M. Salomaa, V. Viikari, A. Lonngqvist, T. Koskinen, J. Saily, J. Hakli, J. Ala-Laurinaho, J. Mallat and A.V. Raisanen. "Radio-wave beam shaping using holograms." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 1305-1308 vol.2.

Millimetre-wave radio fields are shaped using both amplitude- and phase-type computer-generated holograms (diffractive elements). Methods for hologram element synthesis are described. Holograms that produce plane waves, radio-wave vortices, and Bessel beams at 310 GHz are fabricated and tested.

 [Return to main document.](#)