

Abstracts

Image Formation in Circular Waveguides and Optical Fibers

A.R. Mahnad and E.F. Kuester. "Image Formation in Circular Waveguides and Optical Fibers." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 122-124.

The formation of images of Gaussian beams at certain distances along a circular metallic waveguide or optical fiber is studied. The phenomenon of Fourier imaging in which an essentially exact replica of the input beam is produced, occurs here as it does for slab waveguides. The Fresnel images produced in the circular guides, however, are not replicas, but are related to a certain transform of the original beam shape.

 [Return to main document.](#)