

Abstracts

The H_{0n} mode in free-space and conical waveguides

J. Van Bladel. "The H_{0n} mode in free-space and conical waveguides." 2002 *Transactions on Microwave Theory and Techniques* 50.4 (Apr. 2002 [T-MTT]): 1233-1237.

H_{0n} is one of the Neumann eigenfunctions used to expand the axial H component in a cylindrical waveguide. It cannot be omitted, lest erroneous results are obtained in, for example, aperture coupling with the exterior region. This paper investigates whether the same situation holds for a conical waveguide, and extends the analysis to free space, which may be considered as a radial waveguide.

[!\[\]\(c3d993ca47bfe2a953c700506ce31fa0_img.jpg\) Return to main document.](#)

Click on title for a complete paper.