Abstracts

Focusing of 52-GHz Beams by Cylindrical Mirrors (Short Papers)

J.A. Arnaud, D.C. Hogg and J.T. Ruscio. "Focusing of 52-GHz Beams by Cylindrical Mirrors (Short Papers)." 1972 Transactions on Microwave Theory and Techniques 20.5 (May 1972 [T-MTT]): 344-345.

The possibility of using inexpensive commercial glass mirrors for refocusing and redirecting millimeter-wave beams has been investigated; such beams would be useful for distributing large quantities of information in cities. Interference is expected to be minimal as a result of the close confinement of the beams. We report preliminary experiments made in the 50-55-GHz band, using a swept backward-wave oscillator (BWO) as a source.

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