Abstracts

Semiconductor Rod in Waveguide--Field Distribution for Positive and Negative Conductivity (Correspondence)

J.B. Anderson and B. Majborn. "Semiconductor Rod in Waveguide--Field Distribution for Positive and Negative Conductivity (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.3 (Mar. 1968 [T-MTT]): 194-196.

The electromagnetic field distribution inside as well as outside a circular cylindrical rod of arbitrary complex permittivity placed in a rectangular waveguide has been computed. Amplification and resonance phenomena are found in the case of a rod with a negative conductivity.

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