

Abstracts

On Mode Losses in Confocal Resonator and Transmission Systems (Correspondence)

J.C. Heurtley and W. Streifer. "On Mode Losses in Confocal Resonator and Transmission Systems (Correspondence)." 1965 Transactions on Microwave Theory and Techniques 13.5 (Sep. 1965 [T-MTT]): 711-712.

In a recent correspondence Lonngren and Beyer calculated the losses for a single iteration in a "beam waveguide" with circular lenses separated by twice their focal length. Since the confocal Fabry-Perot resonator with two identical circular mirrors may be studied by superimposing two guided wave beams propagating oppositely in the given system, the beam-waveguide losses allow one to determine the resonator Q.

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