Abstracts

Numerical Analysis of Mode Structures and Attenuations in Dielectric-Coated Circular Hollow Waveguides for the Infrared

Y. Kato and M. Miyagi. "Numerical Analysis of Mode Structures and Attenuations in Dielectric-Coated Circular Hollow Waveguides for the Infrared." 1994 Transactions on Microwave Theory and Techniques 42.12 (Dec. 1994, Part I [T-MTT]): 2336-2342.

The changes of the mode structures and attenuation constants in dielectric-coated circular metallic hollow waveguides are numerically investigated by solving the exact characteristic equations. It is shown that the mode structures in the small-core waveguides change drastically with the thickness of the coated-dielectric.

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