Abstracts

Source-Type Integral Equation Analysis of Circularly Curved Channel Waveguides in a Multilayered Background

H.J.M. Bastiaansen, H.E. Craye and H. Blok. "Source-Type Integral Equation Analysis of Circularly Curved Channel Waveguides in a Multilayered Background." 1995 Transactions on Microwave Theory and Techniques 43.7 (Jul. 1995, Part I [T-MTT]): 1597-1604.

The source-type integral equation method has proven to be a powerful modeling tool for straight ridge waveguides. This method is full-vectorial and mathematically rigorous. In a previous publication the source-type integral equation method has also been successfully applied to circularly curved channel waveguides in a homogeneous background. In the present paper this approach is extended to circularly curved channel waveguides embedded in a multilayered background. These are the type of waveguide structures that are usually encountered in integrated-optical and optoelectronic devices.

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