Abstracts

Efficient analysis of magnetostatic surface waves in printed and suspended ferrite loaded strip lines

R. Rafii-El-Idrissi, R. Marques and F. Medina. "Efficient analysis of magnetostatic surface waves in printed and suspended ferrite loaded strip lines." 2001 Microwave and Wireless Components Letters 11.4 (Apr. 2001 [MWCL]): 176-178.

This paper analyzes the guidance of magnetostatic surface waves (MSSW) by a metallic strip printed on a ferrimagnetic slab or on a dielectric/ferrimagnetic structure (suspended configuration) in the frame of the magnetostatic approach. An integral spectral domain analysis (SDA) is used for this purpose. Shielding upper and/or lower ground planes are also considered. Some interesting new physical effects, such as backward and complex MSSWs in the suspended configuration are reported. Good agreement with previously published experimental and computed results confirms the validity of our approach.

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