

Abstracts

Tapping of Love Waves in an Isotropic Surface Waveguide by Surface-to-Bulk Wave Transduction

H.-S. Tuan and C.-P. Chang. "Tapping of Love Waves in an Isotropic Surface Waveguide by Surface-to-Bulk Wave Transduction." 1972 Transactions on Microwave Theory and Techniques 20.7 (Jul. 1972 [T-MTT]): 472-477.

A theoretical study of tapping a Love wave in an isotropic microacoustic surface waveguide is given. The surface Love wave is tapped by partial transduction into a bulk wave at a discontinuity. It is shown here that, by careful design of the discontinuity, the converted bulk wave power and the radiation pattern may be controlled. General formulas are derived for the calculation of these important characteristics from a relatively general surface contour deformation.

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