Eigen waves of semi-opened waveguide structures

Vdovina K., Pleshchinskii I., Pleshchinskii N., Tumakov D.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The properties of the eigen waves of two waveguide structures are investigated in two cases: for semi-opened dielectric waveguide and for semi-opened elastic waveguide. It is proved that modes of semiopened waveguides belonging to discrete and to continuous parts of spectrum form the orthogonal system. © 2008 IEEE.