

“Slot antennas for various space and avionic applications”, pp.239-244

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Abstract – The Galerkin’s method with restricted spectrum of space harmonic and the method of induced magnetomotive forces with the functions for magnetic current distribution in the slot obtained by the asymptotic method of averaging are applied to the problem of electromagnetic wave radiation by leaky-wave slot antennas as electrically long slot and non-resonant system of transverse slots in the rectangular waveguide walls. The paper includes calculation of space-energy characteristics of such leaky-wave antennas.