# Abstracts

## Perturbation Theorems for Waveguide Junctions, with Applications (1962 [MWSYM])

Our perturbation theorems are stated in the context of a theory of waveguide junctions. A waveguide junction is a linear electromagnetic system possessing ideal waveguide leads and is subject to excitation only through nonattenuated modes in these leads. The domain of the electromagnetic field is the finite region V; the surface S, the complete boundary of V, consists of a part $S_o$, coinciding with a perfectly conducting surface, and the parts $S_1$, $S_2$, . . . , $S_n$, where $S_m$ is the terminal surface in the mth of the n waveguide leads.

❑ Return to main document.