

# Abstracts

## Wave Leakage from Groove NRD Structures

---

Z. Ma and E. Yamashita. "Wave Leakage from Groove NRD Structures." 1993 *Microwave and Guided Wave Letters* 3.6 (Jun. 1993 [MGWL]): 170-172.

It is shown that the offset of grooves in the groove NRD structure causes the leakage of power from the operating mode fields. Numerical results based on a full-wave analysis are provided to show the complex propagation properties of the operating mode as a function of the offset dimension of the grooves and the frequency. Mode conversion behavior between the operating mode and the dominant mode is also illustrated. Some conclusions about the usage of the GNRD guide are drawn.

 [Return to main document.](#)