

Carrier tracking in RAKE reception of wide-band DSSS in Ricean fading (Comments)

R.E. Ziemer and L.B. Milstein. "Carrier tracking in RAKE reception of wide-band DSSS in Ricean fading (Comments)." 2001 Transactions on Microwave Theory and Techniques 49.10 (Oct. 2001, Part I [T-MTT] (Mini-Special Issue on Electrical Performance of Electronic Packaging (EPEP))): 1822-1823.

In an earlier paper by Ziemer et al. (see *ibid.*, vol.47, no.6, pp.681-6, 1999), the effect of phase-tracking error in the fingers of a coherent RAKE receiver was characterized. This paper gives additional results for the case where the phase tracking error is due jointly to input noise to the receiver and phase noise internal to the phase tracking device. An optimum number of paths exists, giving a minimum bit-error probability.

 [Return to main document.](#)