

Evaluasi kinerja sistem W - CDMA Radio Over Fiber (W - CDMA - ROF)

Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=132830&lokasi=lokal>

Abstrak

Radio Over Fiber is a technique to transmit radio signal over optical fiber in wireless infrastructure network that give low - cost, practical usage, and flexibility system configuration advantage. However, Radio Over Fiber system has weaknesses from laser diode nonlinearity and fiber optic chromatic dispersion . Therefore, the performance of W-CDMA system which is integrated with Radio Over Fiber system is evaluated in this research. It will be analyzed and compared performance of W-CDMA system in eight scheme, which are influence different fiber length, influence of different lambda, influence of different data rate, influence of user amount, influence of channel coding, influence of interleaver, influence of different coding rate, and influence of nonlinearity . The results of simulation show commonly W-CDMA system integrated with Radio Over Fiber system have a good performance