

Abstracts

Efficient simulation of coded MC-DS-CDMA systems

T.B. Welch and R.E. Ziemer. "Efficient simulation of coded MC-DS-CDMA systems." 1999 Transactions on Microwave Theory and Techniques 47.6 (Jun. 1999, Part I [T-MTT]): 675-680.

We use computer simulations to compare the performance improvements associated with coding on a Gaussianized binary phase-shift keying (BPSK) multicarrier direct-sequence code-division multiple-access (MC-DS-CDMA) system and a nonGaussianized differential phase-shift keying (DPSK)-MC-DS-CDMA system. The effects of coding on the Gaussianized system approach the performance of a coded BPSK system operating in a Gaussian channel while the non-Gaussianized system performance is approximately 4 dB from the coded DPSK system operating in a Gaussian channel.

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