

韋布衰落環境中 MC-DS-CDMA 系統 CFO 衝擊之研究

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摘要

基於CFO (carrier frequency offset)的觀點，性能分析的結果透過用為一個MC-DS-CDMA(multi-carrier direct-sequence coded-division multiple-access)系統裡採用韋布(Weibull)衰落通道在這次調查過程中提議。另一方面，值為一個MC-DS-CDMA 系統合成最大比例合成(maximum ratio combining,MRC)結合得到精簡之SNR與BER值，由於MRC基於韋布統計的多元的特徵函數(全文MGF)公式與 Q-function相關。而且，在一個MC-CDMA 系統的性能評價上，其它觀點不僅是使用的單個用戶和多用戶的情況的假定，而且偏頻干擾 (PBI)的現象也被包含於計算中。而且，數值結果，比較一些系統參數，如CFO 值，韋布衰落參數()，用戶數目(K)，次載波數目(N)，分支數目(L)，和 PBI 值(JSR)，等，與彼此比較數字結果是為了有效的精確推導公式，就作者所知，在這篇文章中在MC-DS-CDMA系統在CFO觀點去看韋布衰落是一個新的創見。

關鍵詞：CFO (載波頻率抵譜)、MC-DS-CDMA(多載波劃碼多重進接系統)、MGF(特徵函數)、MRC(最大比例合成)、PBI(偏頻干擾)、Weibull fading(韋布衰落)。

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