

研究分析具有高斯分布相關係數分支之 OFDM 系統

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摘要

本文主要研究正交分頻多工系統系統工作於相關性Nakagami-m通道的系統效能分析研究。其中相關分支假設呈現高斯相關 (correlated-Gaussian) 模型。OFDM(orthogonal frequency division multiplexing)系統中，當兩接收的天線非常接近，接收的信號是具有相關性，此一現象必然會影響系統效能。而相關性又與Nakagami-m通道m值和高斯相關係數有關。本文利用計算接收機端之位元錯誤率(bit error rate, BER)之方法研究系統效能與Nakagami-m通道中之衰落參數值，m值和高斯相關係數的關係。 關鍵詞：正交分頻多工系統、相關性Nakagami-m通道、高斯相關係數

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