



航空学报 » 2002, Vol. 23 » Issue (2) :187-189 DOI:

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n-TFSK时频调制信号的功率谱分析

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SPECTRAL DENSITY OF n-TIME-FREQUENCY-SHIFT-KEYING SIGNAL

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摘要

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摘要 高速移动数据传输时,由高速移动而产生的衰落以及多径波的干扰,传输特性及差错率特性恶化,相移时频调制正是为了对抗衰落与多径延迟而产生。建立了n-TFSK时频调制的数学模型及其复数包络模型,在n-TFSK信号的复包络自相关函数的基础上计算了n-TFSK信号的功率谱密度,并对其进行了特性分析

关键词: 时频调制 自相关函数 功率谱密度 数学模型

Abstract: The data error and transmission properties will deteriorate in a high speed mobile data transmission channel because of the signal fading and the interference of multi-channel waves. Time frequency shift keying (TFSK) modulation is presented to improve the mobile channel property. This paper presents a novel model of TFSK, n TFSK. The mathematical model of n TFSK signal and its auto-correlation function are presented. The spectral density of the TFSK signal has also been calculated in great detail. In comparison with the well known MSK and DPFSK models, this model exhibits a unique performance.

Keywords: n-TFSK auto-correlation function spectral density mathematical model

Received 2001-02-28; published 2002-04-25

引用本文:

周力;王琪;顾平. n-TFSK时频调制信号的功率谱分析[J]. 航空学报, 2002, 23(2): 187-189.

ZHOU Li;WANG Qi;GU Ping. SPECTRAL DENSITY OF n-TIME-FREQUENCY-SHIFT-KEYING SIGNAL[J]. Acta Aeronautica et Astronautica Sinica, 2002, 23(2): 187-189.

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