

论文

调制指数为整数和半整数的连续相位调制信号的盲检测

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摘要

根据调制指数为整数和半整数的连续相位调制(CPM)信号的循环平稳特性, 该文提出一种在未知编码序列、载频、码元宽度及峰值频率偏移等参数的情况下对CPM信号的盲检测方法。该方法是对传统循环谱分析器的改进。仿真实验证明该方法具有良好的检测性能并容易实现, 具有广阔的工程应用前景。

关键词 [连续相位调制](#) [循环平稳](#) [检测](#)

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Blind Detection of Continuous Phase Modulation Signals with Integer and Half Integer Modulation Index

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Abstract

Based on the characteristics of cyclostationarity of Continuous Phase Modulation (CPM) signals with integer and half integer modulation index, a novel method of detecting CPM signals under the condition of unknown code sequence, carrier frequency, chip width and peak frequency deviation is presented in this paper. This method is an improvement of the traditional cyclic spectral analyzer; as well, its high detection performance is proved by the computer simulations.

Key words [Continuous phase modulation](#) [Cyclostationarity](#) [Blind detection](#)

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