

阶比谱分析瞬时频率的多模式曲线拟合方法

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摘要 分析了利用瞬时频率的拟合曲线来求取鉴相时标的多种曲线拟合方法, 并讨论了各种曲线拟合方法在不同的瞬时频率、采样点数及有无频率突变等条件下应用的优劣性。提出了瞬时频率的多模式曲线拟合方法, 阐述了其在实际应用中对于不同情况的适用性, 并利用仿真实验证明了结论的正确性。

关键词 [信息处理技术](#), [多模式](#), [曲线拟合](#), [瞬时频率](#), [阶比谱](#)

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Multi mode curve fitting method of instantaneous frequency in order tracking spectrum analysis

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Abstract After the analysis of many curve fitting methods to obtain phasing time scale by using instantaneous frequency and the advantage and deficiency when they were applied in different situations, such as with different instantaneous frequency, with different sample points and with or without sudden frequency change, a multi mode curve fitting method of instantaneous frequency was proposed. Then its applicability to different situation was elaborated. Simulation results illustrate the correctness of the method.

Key words [information processing](#) [multi mode](#) [curve fitting](#) [instantaneous frequency](#) [order tracking spectrum](#)

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