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Compensation of the two-stage phase-shifting algorithms with respect to detuning and harmonics

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Abstract content

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The study of two-stage phase-shifting algorithms is a topic of recent research, specically the Fourier analysis of these algorithms with respect to insensitivity properties to various error sources. The main motivation of this paper is to propose two-stage phase-shifting algorithms with insensitivity properties to detuning and harmonics for the two sets of interferograms with dierent or equal reference frequencies.

In this work the design of two-stage phase-shifting algorithms is based on the development of generalized equations that consider non-constant phase shifts. The analysis of the frequency sampling functions representing these algorithms is also considered.

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