

Synchronization with Error Bound of Non-Identical Forced Oscillators

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Abstract: Synchronization with error bound of two non-identical forced oscillators is studied in the paper. By introducing two auxiliary autonomous systems, differential inequality technique and active control technique are used to deal with the synchronization of two non-identical forced oscillators with parameter mismatch in external harmonic excitations. Numerical simulations show the effectiveness of the proposed method.

Keywords: chaotic synchronization with error bound; non-identical forced oscillator; differential inequality; active control;

AMS Subject Classification: 74H65; 70K40;

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