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An Oscillator with Delay Lines

Masanobu TSUKADA*

A closed-loop system including substantial delay time, is represented by differential-difference equation. Such system is known to be a kind of multimode oscillator, and is characterized by causing mode changing when a certain parameter is varied. The steady-state periodic mode of so-called Minorsky's equation which is typical of such systems are studied and then the phenomenon of mode changing is discussed from the viewpoint of stability of the periodic solution.

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