

DYNAMIC BEHAVIOR OF THE SOLUTIONS FOR A CLASS OF FOUR COUPLED ADVERTISING OSCILLATORS MODEL WITH DELAY

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ABSTRACT

In this paper, a class of four coupled advertising oscillators model with time delay is investigated. By means of mathematical analysis approach, some sufficient conditions to guarantee the stability of the solutions and the existence of oscillatory solutions for the model are obtained. Computer simulations are provided to demonstrate the present results.

Keywords: Coupled advertising oscillator, delay, instability, oscillation.