

SOME LYAPUNOV–TYPE INEQUALITIES FOR A CLASS OF NONLINEAR SYSTEMS

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Abstract. In this paper, we present some new Lyapunov-type inequalities for a class of nonlinear differential systems, which are natural generalizations of the well-known Lyapunov inequality for linear second order differential equations. The results of this paper generalize some previous results on this topic.

Mathematics subject classification (2010): 34C11.

Keywords and phrases: Lyapunov-type inequality, nonlinear differential system.

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