



Stability in the Models of Real World Phenomena

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Abstract: In this paper we consider several examples of real world models to illustrate the general methods of stability analysis of nonlinear systems developed recently in the Department of Processes Stability of S.P. Timoshenko Institute of Mechanics of NAS of Ukraine.

Keywords: *robot dynamics and control; neural networks on time scales; lasers; dynamic economic models; fuzzy control; scalar and vector Lyapunov functions.*

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