

Title: On the practical stability of dependent parameter perturbed systems

Author(s): Mouna Belguith, Amel Benabdallah and Mohamed Ali Hammami

We investigate in this paper the global uniform practical asymptotic stability for a class of dependent parameter perturbed systems where the associated linear system is globally exponentially stable and the perturbation term is subject to two conditions. An example is given to illustrate the result of this paper formulated in the form of Linear matrix inequalities.

Address:

Mouna Belguith
Faculty of Sciences of Sfax
Department of Mathematics
BP 1171
3000 Sfax
Tunisia

Address:

Amel Benabdallah
Faculty of Sciences of Sfax
Department of Mathematics
BP 1171
3000 Sfax
Tunisia

Address:

Mohamed Ali Hammami
Faculty of Sciences of Sfax
Department of Mathematics
BP 1171
3000 Sfax
Tunisia

E-mail: Mohamed.Ali.Hammami@fss.rnu.tn