

[2009-0532] A New Delay-dependent Absolute Stability Criterion for Lurie Systems with Time-varying delay

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摘要

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GAO Jin-Feng, PAN Hai-Peng, JI Xiao-Fu

Abstract

The problem of absolute stability analysis for Lurie systems with time-varying delay and norm-bounded parameter uncertainties is considered. By using a new Lyapunov-krasovskii functional

which splits the whole delay interval into two subintervals and defining a different energy function on each subinterval, some new delay-dependent robust absolute stability criteria are

presented in terms of strict linear matrix inequalities (LMIs). The obtained delay-dependent criteria are less conservative than previous ones, which are illustrated by numerical examples

Key words

[Lurie system](#) [time-varying delay](#) [absolute stability](#) [nonlinearity](#) [linear matrix inequality \(LMI\)](#)

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通讯作者

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