

Sistemler için Lyapunov-tipi eşitsizlikler

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Konuşma Özeti

Bu konuşmada, $k = 1, 2, \dots, n$ için

$$-(r_k(x) \phi_{p_k}(u'_k))' = f_k(x) \phi_{\alpha_{kk}}(u_k) \prod_{\substack{i=1 \\ i \neq k}}^n |u_i|^{\alpha_{ki}} \quad (1)$$

quasilinear sistemi için elde edilen yeni Lyapunov tipi eşitsizlikler verilecektir. Tiryaki ve diğerleri [11] tarafından elde edilen sonuçlar sunumda yer alan sonuçların özel halleridir. Dolayısıyla sunumda elde edilen sonuçlar literatürde yer alan sonuçların bir genellemesidir.

Anahtar Kelimeler: Lyapunov-tipi eşitsizlikler, Quasilinear sistemler.

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