

Fark denklem sistemleri için Lyapunov-tipi eşitsizliklerMerve Arıtürk*Gazi Üniversitesi, Ankara**merveariturk@gazi.edu.tr***Konuşma Özeti**

Bu konuşmada, $k = 1, 2, \dots, m$ olmak üzere,

$$-\Delta \left(r_k(n) |\Delta u_k(n)|^{p_k-2} \Delta u_k(n) \right) = f_k(n) |u_k(n+1)|^{\alpha_{kk}-2} u_k(n+1) \prod_{\substack{i=1 \\ i \neq k}}^m |u_i(n+1)|^{\alpha_{ki}} \quad (1)$$

quasilinear sistemi için elde edilen yeni Lyapunov tipi eşitsizlikler verilecektir. Sunumda elde edilen sonuçlar literatürde yer alan sonuçları genişletir ve geliştirir.

Anahtar Kelimeler: Lyapunov-tipi eşitsizlikler, Quasilinear sistemler.

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