

## LYAPUNOV–TYPE INEQUALITY FOR QUASILINEAR SYSTEMS WITH ANTI-PERIODIC BOUNDARY CONDITIONS

MUSTAFA FAHRI AKTAŞ, DEVRİM ÇAKMAK AND AYDIN TIRYAKI

*Abstract.* In this paper, we establish a new Lyapunov-type inequality for quasilinear systems with the anti-periodic boundary conditions. It improves some result of Wang [17]. As an application, we also obtain lower bounds for the eigenvalues of corresponding systems.

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