



**OSCILLATION OF EVEN ORDER DAMPING QUASI-LINEAR
NEUTRAL DIFFERENTIAL EQUATIONS WITH
DISTRIBUTED DELAYS**

Tian Xue-Quan, Wang Hong-Ke and Yu Yuan-Hong

Abstract

Consider even order damping quasi-linear neutral differential equations with distributed delays. By using the generalized Riccati transformation and integral averaging, new oscillation criterion are obtained for all solutions of the equations. The obtained results generalize and improve some known results.

Keywords and phrases: half-linear differential equation, distributed delays, Riccati transformation, oscillation criterion.

**Pioneer Journal
of Advances in
Applied
Mathematics**



Pioneer Scientific
Publisher