NONLINEAR RETARDED INTEGRAL INEQUALITIES OF
GRONWALL–BELLMAN TYPE AND APPLICATIONS

A. ABDELDAIM

Abstract. The aim of this paper is to establish some new nonlinear retarded integral inequalities of Gronwall-Bellman type. More accurately we extend certain results which have been proved in El-Owaidy et. al, [12] and Abdeldaim and Yakout [2] to some nonlinear retarded integral inequalities. We also give some applications to estimate the solutions of some nonlinear retarded differential equations to illustrate the effectiveness of some from our results.


Keywords and phrases: Integral inequality, retarded integral inequality, retarded integral and differential equations.

REFERENCES


