SOME GRONWALL TYPE INEQUALITIES ON TIME SCALES

WEI NIAN LI AND WEIHONG SHENG

Abstract. In this paper, we investigate some Gronwall type inequalities on time scales, which provide explicit bounds on unknown functions. Our results unify and extend some continuous inequalities and their corresponding discrete analogues. Two applications of the main results are given in the end of this paper.


Keywords and phrases: Time scale, Gronwall inequality, dynamic equation.

REFERENCES