EXTENSIONS OF HÖLDER’S INEQUALITY AND ITS APPLICATIONS IN OSTROWSKI INEQUALITY

FEI YAN AND HONG-YING YUE

Abstract. In this paper, we present several new extensions and refinements of Hölder’s inequality and some related inequalities. These Hölder’s inequalities are presented via function \( f(t) \). My results generalize and extend the results of Tian. Furthermore, we apply our results to Ostrowski inequality to obtain some other interesting inequalities as special cases.


Keywords and phrases: Hölder’s inequality, Ostrowski inequality, extension, time scales, concave functions.

REFERENCES