

SOME NEW WEIGHTED HARDY-TYPE INEQUALITIES FOR VECTOR-VALUED FUNCTIONS

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Abstract. This is a continuation of an earlier work of Cheung-Pečarić. By using the C -technique developed by Cheung and Pečarić, some new and interesting Hardy-type inequalities involving vector-valued functions are established. These generalize and improve some known results by Cheung, Cheung-Hanjš-Pečarić, Izumi-Izumi, and Pachpatte.

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