A MORE ACCURATE MULTIDIMENSIONAL HARDY–HILBERT TYPE INEQUALITY WITH A GENERAL HOMOGENEOUS KERNEL

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Abstract. In this paper, by the use of the weight coefficients, the transfer formula, Hermite-Hadamard’s inequality and the technique of real analysis, a more accurate multidimensional Hardy–Hilbert-type inequality with a general homogeneous kernel and a best possible constant factor is given, which is an extension of some published results. Moreover, the equivalent forms, the operator expressions and some particular examples are considered.


Keywords and phrases: Hardy-Hilbert-type inequality, weight coefficient, Hermite-Hadamard’s inequality, equivalent form, operator.

REFERENCES


