

A sharp error estimate of the best approximation by algebraic polynomials in the weighted space $L_2(-1, 1)$

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Abstract

We obtain an exact error estimate of the best approximation by algebraic polynomials in the Lebesgue space $L_2(-1, 1)$ with the weight $1 - x^2$ of degree $\lambda > -1$. © Allerton Press, Inc., 2013.

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Keywords

Best approximation, Sharp estimate, Weighted space