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FINDING THE BEST APPROXIMATION ORDER BY THE QUASIPOLYNOMIALS IN A MIXED NORM SPACE

Abstract

In the paper we establish the best approximation order of many variable functions by the polynomials of class Π in the space $L_{\overline{p}}(Q)$, where the Q may differ from parabellelepiped. Moreover, bilateral inequalities for the best approximation $E(f, \Pi)_{L_{\overline{p}}(Q)}$ were obtained with obvious constants.