

Degree of Approximation of Functions by Product Means

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Abstract : In this paper, for the first time, $(E,q)(C,2)$ product summability method is introduced and two quite new results on degree of approximation of the function f belonging to $Lip(\alpha,r)$ class and $W(L(r), \xi(t))$ class by $(E,q)(C,2)$ product means of Fourier series, has been obtained.

Keywords : Degree of approximation, $(E,q)(C,2)$ means, Fourier series, Lebesgue integral, $Lip(\alpha,r)$ class, $W(L(r), \xi(t))$ class of functions

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