THE ESTIMATE OF THE DEGREE OF APPROXIMATION USING AN EXTENDED CHEBYSHEV SYSTEM

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Abstract: *If* Ψ_1, Ψ_2, Ψ_3 *is an extended Chebyshev system on the interval* $[a, b]$ *and* L *is a positive linear operator on* $C[a, b]$*, such that* $L(\Psi_i) = \Psi_i$*,* $i = 1, 2$*, then one obtains an estimate of the difference* $L(f, x) - f(x)$*, in terms of certain adapted second order moduli for the given extended Chebychev system.*

Key words: *positive linear operators, extended Chebyshev systems, second order moduli of continuity.*

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