CONSTRUCTION OF THE KANTOROVICH VARIANT OF THE BERNSTEIN–CHLODOVSKY OPERATORS BASED ON PARAMETER $\alpha$

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Abstract. In this article, a new family of kantorovich variant of Chlodovsky operators is introduced. The authors establish some approximation theorems, such as a direct approximation by means of the Ditzian-Totik modulus of smoothness, a global approximation theorem in terms of second order modulus of continuity and so on. Furthermore, a voronovskaja type asymptotic estimate formula is presented. Finally, the rate of convergence for some absolutely continuous functions having a derivative equivalent to a bounded variation function is obtained.


Keywords and phrases: Chlodovsky operators, modulus of smoothness, modulus of continuity, bounded variation.

REFERENCES


