

Korovkin Type Approximation Theorems In Weighted Spaces Via Power Series Method

Emre Taş ⁽¹⁾, Tuğba Yurdakadim ⁽²⁾ and Özlem G. Atlıhan ⁽³⁾

⁽¹⁾ *Ankara University, Ankara, Turkey, emretas86@hotmail.com*

⁽²⁾ *Ankara University, Ankara, Turkey, tugbayurdakadim@hotmail.com*

⁽³⁾ *Pamukkale University, Denizli, Turkey, oatlihan@pau.edu.tr*

Abstract

In this paper we consider power series method which is also member of the class of all continuous summability methods. We study a Korovkin type approximation theorem for a sequence of positive linear operators acting from a weighted space C_{ρ_1} into a weighted space B_{ρ_2} with the use of the power series method which includes both Abel and Borel methods. We also consider the rates of convergence of these operators.

Keywords: Power series method, Korovkin type theorem, weighted space, rate of convergence.

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