

BETA APPROXIMATING OPERATORS OF SECOND KIND FOR TWO VARIABLES

Ioana TAŞCU

Abstract: In this paper we present the Beta second - kind transform $T_{p,q,r,s}$ of a function $g : [0, +\infty) \times [0, +\infty) \rightarrow \mathbb{R}$ bounded and Lebesgue measurable in every interval $[a, b] \times [c, d]$, where $0 < a < b < \infty$ and $0 < c < d < \infty$, such that $T_{p,q,r,s} |g| < \infty$, by starting from the Beta distribution of second kind $b_{p,q}$.

MSC: 41A10, 41A80

Keywords: Bernstein operators, Bernstein-Schurer operator, Voronovskaja's theorem.