

Year: 2008

Vol.: 73

Fasc.: 1-2

Title: Pointwise approximation theorems for Meyer-König and Zeller-Durrmeyer operators

Author(s): Qiulan Qi and Juan Liu

In this paper, we give the estimates of the second and fourth-order moments for the Meyer-König and Zeller-Durrmeyer type operators. Secondly, using the equivalence between the unified moduli of smoothness $\omega_{\varphi,\lambda}^2(f,t)$ and the Peetre's K -functional $K_{\varphi,\lambda}^2(f,t^2)$ ($0 \leq \lambda \leq 1$), we obtain the direct, inverse and equivalence theorems for these operators.

Address:

Qiulan Qi
College of Mathematics and Information Science
Hebei Normal University
Shijiazhuang 050016
People's Republic of China

Address:

Juan Liu
College of Mathematics and Information Science
Hebei Normal University
Shijiazhuang 050016
People's Republic of China