ASYMPTOTIC BEHAVIOR OF THE MODULUS OF THE KERNEL AND ERROR BOUNDS OF ANTI-GAUSSIAN QUADRATURE FORMULAS WITH JACOBI WEIGHTS

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The remainder term of anti-Gaussian quadrature rules for analytic integrands with respect to Jacobi weight functions $\omega_{a,b}(x) = (1-x)^a(1+x)^b$, where $a, b > -1$, is analyzed, and sharp estimates of the error are provided. These kinds of quadrature formulas were introduced by D.P. Laurie and have been recently studied by M.M. Spalević for the case of Chebyshev-type weight functions ω.

References

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