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Weighted Markov inequalities for curved majorants. (English) [Zbl 1120.41017]

Summary: We give exact estimations of certain weighted $L^2$-norms of the derivative of polynomial, which have a curved majorant. They are all obtained as applications of special quadrature formulae.

MSC:
41A17 Inequalities in approximation (Bernstein, Jackson, Nikol’skii-type inequalities)
41A05 Interpolation in approximation theory
41A55 Approximate quadratures
65D30 Numerical integration
26D05 Inequalities for trigonometric functions and polynomials

Keywords:
Bouzitad quadrature; Chebyshev polynomials; inequalities

Full Text: EuDML