Sharp Error Bounds for Interpolating Splines in Tension

Miljenko Marušić, Mladen Rogina

Department of Mathematics, University of Zagreb, Bijenička 30, 10000 Zagreb, Croatia

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ABSTRACT

Sharp error bounds for interpolating splines in tension with variable tension parameters are considered. Error bounds given are the best possible ones in the limit case of the tension parameter p, that is for linear ($p \to \infty$) and cubic ($p \to 0$) spline. Sharper error bounds than those previously published are also developed for derivatives.