

Gauss-type quadrature with multiple nodes

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Abstract

We consider a quadrature sum with multiple nodes in two different ways: As the Gauss quadrature for a general linear functional on the space of polynomials, and as a Gauss-type quadrature for a positive definite linear functional. In the latter case we focus on the error bounds based on the contour integral representation of the remainder term, the area in which Miodrag Spalević gave the great contribution.

Keywords: Gauss quadrature with multiple nodes, error bounds