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On the error term of symmetric Gauss-Lobatto quadrature formulae for analytic functions.

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Math. Comput. 69, No. 229, 269-282 (2000).

The authors consider Gauss-Lobatto quadrature formulae associated with a symmetric weight function. The kernel of the remainder term for classes of analytic functions is investigated on elliptical contours. There are found sufficient conditions ensuring that the kernel attains its maximal absolute value at the intersection point of the contour with the real or the imaginary axis.

Reviewer: J.Kofroň (Praha)

MSC:

41A55 Approximate quadratures

65D30 Numerical integration

Cited in 17 Documents

Keywords:

Gauss-Lobatto quadrature; remainder term for analytic functions; contour integral representation; kernel function

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