THE THEORETICAL FOUNDATION IN THE HOLDER SPACE OF QUADRATURES METHOD OF SOLVING NONLINEAR SINGULAR INTEGRAL EQUATIONS GIVEN ON CLOSED SMOOTH CONTOUR

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Abstract

In this work, we propose a theoretical foundation of some computing schemes of quadratures method for solving nonlinear singular integral equations (SIE) given on arbitrary closed smooth contour. Estimations of convergence rate of approximative solution are obtained in Holder spaces.