

Stability estimates for a third order of accuracy difference scheme elliptic overdetermined multi-point problem

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Abstract: In this presentation, we discuss a third order of accuracy difference scheme for approximately solution of the elliptic overdetermined multi-point problem in Hilbert space. Functional operator approach is used to study existence and uniqueness solution of difference problem. Stability, almost coercive stability and coercive stability estimates for solution of difference scheme are established.

Keywords: High order approximation, elliptic overdetermined problem, stability.

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