

OPTIMAL-ORDER PARAMETER IDENTIFICATION IN SOLVING NONLINEAR SYSTEMS IN A BANACH SPACE

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摘要

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OPTIMAL-ORDER PARAMETER IDENTIFICATION IN SOLVING NONLINEAR SYSTEMS IN A BANACH SPACE

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Abstract We study the sufficient and necessary conditions of the convergence for parameter-based rational methods in a Banach space. We derive a closed form of error bounds in terms of a real parameter λ ($1 \leq \lambda < 2$). We also discuss some behaviors when the family is applied to abstract quadratic functions on a Banach space for $\lambda = 2$.

Key words

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