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The Connection between the Metric and Generalized Projection Operators in Banach Spaces

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摘要

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Abstract In this paper we study the connection between the metric projection operator $SP_{\{K\}}: B \rightarrow K$, where B is a reflexive Banach space with dual space B^* and K is a non-empty closed convex subset of B , and the generalized projection operators $\text{prod}_{\{K\}}: B \rightarrow K$ and $\pi_{\{K\}}: B^* \rightarrow K$. We also present some results in non-reflexive Banach spaces.

Key words [Banach spaces](#) [normalized duality mappings](#) [metric and generalized projection operators](#) [variational inequalities](#) [minimization problems](#) [closed and convex subsets and cones](#)

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