

Volume 7, Issue 2, Article 57

Relation Between Best Approximant and
Orthogonality in \$C_1\$-classes

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Keywords:	Best approximant, Schatten \$p\$-classes, Orthogonality, \$varphi\$-Gateaux derivative.
Date Received:	21/05/05
Date Accepted:	13/03/06
Subject Codes:	Primary 41A52, 41A35, 47B47; Secondary 4
Editors:	Gradimir V. Milovanovic,
Abstract:	Let E be a complex Banach space and let M be subspace of E . In this paper we characterize the best approximant to $A \in E$ from M and we
	prove the uniqueness, in terms of a new concept of derivative. Using this result we establish a new characterization of the best- \mathcal{C}_1 approximation to
	$A\in \mathcal{C}_1$ (trace class) from $M.$ Then, we apply these results to characterize
	the operators which are orthogonal in the sense of Birkhoff.
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