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Contractive Projections and Lifting of Operators on Banach Spaces

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Abstract

It is due to Lindenstrauss and Tzafrir that a Banach space Y has the *lifting property* (LP) if, for every operator ψ from a Banach space X to a Banach space W and for every $S \in L(Y, W)$, there is $\hat{S} \in L(Y, X)$ such that $S = \psi \circ \hat{S}$. Following this idea, we consider other properties involving lifting of operators, we describe necessary and sufficient conditions for their existence and give several illustrative examples.

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