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Some properties of un-Dunford-Pettis

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Abstract

The study of linear operators has long been central to the interplay between Banach space theory and operator theory. Within the framework of Banach lattices, these operators exhibit rich structural properties that connect weak compactness, order continuity, and lattice homomorphisms. In this work, we investigate operators like un-Dunford-Pettis operators. In particular, we provide novel characterizations of this operator acting between Banach lattices, thereby uncovering its interplay with related operators and situating it within a broader functional-analytic context. Our findings provide new characterizations of this operator in the context of Banach lattices, clarifying its connections with other operators and deepening the understanding of their interrelations. Our results yield new characterizations of this operator in the setting of Banach lattices.

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