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The Order Properties of \mathcal{R} -compact Operators on Banach Lattices

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摘要

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The Order Properties of \mathcal{R} -compact Operators on Banach Lattices

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Abstract We present here that $\mathcal{F}(E, F)$, the space of all \mathcal{R} -compact operators from E into F , is a generalised sublattice of $\mathcal{L}^r(E, F)$ for arbitrary Banach lattices E and F , and that the characterization of the regular norm on $\mathcal{F}(E, F)$ is order continuous. Some conditions for $\mathcal{F}(E, F)$ to be a KB-space or a band in $\mathcal{L}^r(E, F)$ are also provided.

Key words [Banach lattice](#) [KB-space](#) [regular norm](#) [order continuous norm](#) [\$\mathcal{R}\$ -compact operator](#)

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