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Compact operators between interpolation spaces. (English) Zbl 1150.46009
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Summary: We give necessary and sufficient conditions for compactness of operators acting between real \mathcal{K} -interpolation spaces for Banach triples. We also establish an estimate for the measure of non-compactness of an interpolation operator for an arbitrary interpolation method when an approximation hypothesis on the image Banach $N + 1$ -tuple is imposed.

MSC:

46B70 Interpolation between normed linear spaces

46M35 Abstract interpolation of topological vector spaces

Keywords:

interpolation; compact operators; measure of non-compactness