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**Measure of non-compactness and Sparr's interpolation methods.** (English) Zbl 1199.46165

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Summary: We establish an estimate for the measure  $\beta(T)$  of non-compactness of an operator  $T$  acting from some intermediate spaces  $A$  with respect to Banach  $n$ -tuples  $\overline{A}$  into some intermediate space  $B$  with respect to Banach  $n$ -tuples  $\overline{B}$ . We begin with the case when one of the  $n$ -tuples is reduced to a single Banach space and, later, we will treat the general case.

**MSC:**

46M35 Abstract interpolation of topological vector spaces

46B70 Interpolation between normed linear spaces

**Keywords:**

interpolation methods; interpolation of compact operators