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A generalization of $n$-widths.


Summary: “This paper is a study of the $n$-widths defined by Kolmogorov. In Section I we give definitions of $n$-widths of a set in a Banach space and $n$-widths of an operator acting between Banach spaces. Several important well-known results pertaining to these concepts are also included in Section I. In Section II, we introduce a refined concept of an approximation scheme, with respect to which a refined concept of $n$-widths can be defined. Theorems about generalized $n$-widths illustrate the fact that this is a genuine generalization. We finish with the question of finding a concept of $n$-widths in the context of Orlicz modular spaces.”

{For the entire collection see MR1165959 (92m:41004)}

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