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A generalization of n -widths.

Approximation theory, spline functions and applications (Maratea, 1991), 269–278, *NATO Adv. Sci. Inst. Ser. C Math. Phys. Sci.*, 356, Kluwer Acad. Publ., Dordrecht, 1992.

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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