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The Bernstein  $n$ -width of  $Y$  in  $Z$  is  $\mathcal{B}_n(Y, Z) := \sup_{Z_{n+1}} \sup \{ \lambda : \lambda Z_{n+1}^- \subset Y \}$  where the supremum is taken over all subspaces  $Z_{n+1}$  of  $Z$  of dimension at least  $n+1$  and  $Z_{n+1}^-$  denotes the unit ball in  $Z_{n+1}$ . The continuous nonlinear  $n$ -widths are sandwiched by

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(21)  $\mathcal{B}_n(Y, Z) \leq d_n(Y, Z) \leq \mathcal{L}_n(Y, Z)$ ,  
cf. . We can now take care of the proof.

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widths, by Allan Pinkus, Jahresbericht, 86 (1985), 43-44. Research Articles 1.

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The papers in this book, first presented at a 1986 AMS Short Course, give a brief

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Aleksandrov and Urysohn, respectively, can be used to give characterizations of covering dimension (see Dimension): If  $X$  is a compact subspace of some Euclidean space  $\mathbf{R}^n$ , then  $\dim X \leq N$  if and only if  $\alpha_N(X) = 0$ , i.e. if and only if there are arbitrarily small mappings from  $X$  into  $N$ .

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dimensional polyhedra. Likewise, if  $X$  is compact metric, then  $\dim X \leq N$  if and only if  $u_{N-1}(X) = 0$ .

### **Width - Encyclopedia of Mathematics**

N-widths in Approximation Theory,  
Springer-Verlag, New York, 1980.

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first 8 pages contain an excellent introduction to the subject.

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