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On $n$-widths of certain function classes in Orlicz spaces. (Chinese. English summary)

Summary: This paper deals with the extremal problems of general spline classes which degree of $r$ in Orlicz spaces. Based on this, we further study the problems of precisely estimation on $n$-widths of smoothness function classes $\Omega^r_{\infty}[0, 1]$ in Orlicz spaces. Moreover, we discuss the problems of corresponding dual cases.

MSC:
41A15 Spline approximation
46E30 Spaces of measurable functions ($L^p$-spaces, Orlicz spaces, Köthe function spaces, Lorentz spaces, rearrangement invariant spaces, ideal spaces, etc.)

Keywords:
Orlicz space; spline class; function class; width; duality