

In this thesis we recall the notion of a quasi-norm and a p -norm. We mention the Aoki-Rolewicz theorem which connects these two notions. We deal with generalizations of selected results from Banach spaces to p -Banach spaces for $0 < p \leq 1$. We study the class of $L_p(\mu)$ spaces. Namely, we explore their basic properties, their dual spaces and nonlinear structure.