

This thesis deals with a class of  $p$ -Banach spaces known as Lipschitz free  $p$ -spaces, where  $0 < p \leq 1$ . In the first part we describe their construction in detail and give proofs of their basic properties. Using these properties we then characterize the spaces. In the second part we derive a formula, which can under certain circumstances be used to calculate the  $p$ -norm on these spaces, and describe an algorithm which calculates the  $p$ -norm on finite-dimensional Lipschitz free  $p$ -spaces.