
#### Abstract

The notion of an absolute value of a field K is a generalization of the notion of ordinary absolute value of the field $C$ of complex numbers. A real valued function defined on a field $K$ into nonnegative real numbers is called absolute value of $K$ if $(x)=0, x=0 ;(x y)=(x)(y)$ and $(x+y)(x)+$ (y) 8 x ; y 2 K : In this thesis, we study absolute values and its basic properties and some significant results like Ostrowski's Theorem, Approximation Theorem and Independence Theorem. We also discuss Archimedean and non-Archimedean absolute values, completion of fields with respect to absolute values. A non-Archimedean absolute value gives rise to what is called (additive) valuation. A detailed exposition of discrete valuations is brought out. We also study Hensel's Lemma and some of its applications.


