1106-13-559 **Jim Coykendall** (jcoyken@clemson.edu), Mathematical Sciences, Clemson University, Martin O-103, Clemsen, SC 29634, and **Richard Erwin Hasenauer*** (rhasenauer@eureka.edu), Eureka College, 300 E College, Eureka, IL 61530. *Factorization properties of Prüfer domains.*

A Prüfer domain will be said to be Archimedean if all of its local value groups are Archimedean. We will construct a norm N on the set of ideals of an Archimedean Prüfer domain using the surreal numbers, that satisfies the property that $N(IJ) = N(I) + N(J)$ for all ideals $I, J \subseteq D$. Turning our attention to Prüfer domains of finite character (every element is in only finitely many maximal ideals) we show that every ideal factors uniquely into a product of generalized prime powers. We also show that any atomic Prüfer domain of finite character is necessarily a bounded factorization domain. (Received September 02, 2014)