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Jay A Shapiro* (jshapiro@gmu.edu), George Mason University, Dept. of Mathematics, Fairfax, VA 22030. *The Ohm-Rush content function.*

The content of a polynomial over a ring R is a well understood notion. Ohm and Rush generalized this concept of a content map to an arbitrary ring extension of R , although it can behave quite badly. We examine certain properties an algebra may have with respect to this function – content algebra, weak content algebra, semicontent algebra (our own definition), and Ohm-Rush algebra. We show that the weak content and semicontent algebra properties are transitive. However, transitivity is unknown for the content algebra property. Given time we will then compare the Ohm-Rush notion with the more usual notion of content in the power series context. (Received July 11, 2014)