The Depth of a Hypersubstitution

K. Denecke, J. Koppitz, Sl. Shtrakov

Abstract

For given depths of the terms s, t_1, \dots, t_n a formula will be proved to calculate the depth of the composed term $s(t_1, \dots, t_n)$ and if σ is a hypersubstitution and t is a term we derive a formula for the depth of $\hat{\sigma}[t]$.

Key words: Depth of a term, high of a tree, composition of terms, hypersubstitution

AMS Subject Classification: 03B50, 03D15, 08A70, 08A62