

Rafayel Teymurazyan

On the Regularity of the Free Boundary for Quasilinear Obstacle Problems

We extend the regularity of the free boundary of the obstacle problem to a class of heterogeneous quasilinear degenerate elliptic operators. We prove that the free boundary is porous (hence has Lebesgue measure zero) and has finite $(n-1)$ -dimensional Hausdorff measure.