## 1056-49-1675

Richard C Barnard<sup>\*</sup> (rbarnard@math.lsu.edu), 303 Lockett Hall, Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803, and Peter R Wolenski. *The Minimal Time Problem On Stratified Domains.* 

We consider optimal control problems with stratified dynamics that are discontinuous across prescribed submanifolds. We show that the minimal time function is a proximal solution to the Hamilton-Jacobi equation suitably redefined to account for the discontinuities. (Received September 22, 2009)