

UP TO THE BOUNDARY GRADIENT ESTIMATES IN NONLINEAR FREE BOUNDARY PROBLEMS

DIEGO RIBEIRO MOREIRA *

In this talk, we present some ingredients that lead to gradient estimates up to the boundary in nonlinear free boundary problems. As an application, we apply these estimates to deal with singular perturbation problems of flame propagation type in combustion theory.

Joint work with Ederson M. Braga (UFC) and J. Gleison C. Da Silva (UFC-Russas).