

Study of a wall stabilized plasma Torch

LAPLACE, UMR 5213 Université Paul Sabatier, 118 rte de Narbonne, 31062 Toulouse Cedex

Professor Freton Pierre, AEPPT Team, freton@laplace.univ-tlse.fr

Study level for the internship: M2

Electrical engineering, thermal plasma

Duration of the internship 6 months

Short abstract

This internship is devoted to the theoretical study of a wall stabilized plasma torch. This kind of torch is mainly used for plasma projection. The AEPPT team developed one model; the aim of the internship consists to a bibliographic study, to realize a parametric study (Intensity, mass flow rate, plasma gas) and to improve if possible the model developed.

Key words: Plasma, modelling, parametric study