

ELECTRICAL AND OPTICAL ANALYSIS FOR PHYSICAL DESCRIPTION OF A DOUBLE SPARK

BY

**BOGDAN HNATIUC, *STÉPHANE PELLERIN,
EUGEN HNATIUC and **RADU BURLICĂ

The spark that ignites the combustible mixtures is a transient discharge produced between the electrodes of a spark plug, connected to the secondary of a high voltage transformer. A good combustion require a frank spark, in a volume as large is as possible and with a maximum of energy.

A solution to increase the plasma volume and present electrical discharge parameters as function of inter-electrode distances, pressures in the test-reactor and the electrical pulses width of the power supply is proposed.