ΕΙΧΗΜΥΘ/ΙΤΕ

ΣΕΜΙΝΑΡΙΟ

ΟΜΙΛΗΤΗΣ: Dr. Cecile Devaud, British Gas plc

ΘΕΜΑ: Modelling of Attached and Lifted Turbulent Jet Flames

ΤΟΠΟΣ: Αίθουσα Σεμιναρίων, ΕΙΧΗΜΥΘ/ΙΤΕ

ΗΜΕΡΟΜΗΝΙΑ: 7 Ιουλίου 1999

ΩΡΑ: 11:00 π.μ.

ΠΕΡΙΛΗΨΗ:

The capability to predict extinction phenomena is very important for the design and operation of novel combustion equipment. A class of flows showing extinction and finite-rate effects, while at the same time keeping computational simplicity, is that of the turbulent axisymmetric jet. Jet flames are known to detach from the nozzle when the flow rate is too high and this “lift-off” point is one of the crucial quantities that a comprehensive combustion model should be able to capture. In the seminar, a novel combustion model (Conditional Moment Closure) will be presented that deals with this problem. The results show how the model could be improved and suggests what happens in the turbulent flame as it approaches extinction.