



CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS DEL IPN

El Departamento de Control Automático

invita cordialmente a su

Seminario Departamental

Sliding mode control of Large Size Nuclear Reactor

Professor Bijnan Bandyopadhyay
Indian Institute of Technology at Bombay

Martes 8 de Junio, 2010, a las 11:00 horas,
Salón de Usos Múltiples, Edificio del Depto. de Control Automático Computación
(Planta Baja), CINVESTAV-IPN, Unidad Zacatenco, D.F.

In this talk modeling of large size pressurized Heavy Water Reactor(PHWR) will be discussed. An important phenomena known as spatial oscillation will be explained. For the control of spatial oscillation, why a detailed model of reactor is needed will be discussed. Recently developed multi-rate output feedback based sliding mode control will be discussed and the application of this technique to this reactor for the control of zonal power will be discussed. Several representative simulation results will be explained.