

SEMINARIO

Dr. Carlos Lizama

Universidad de Santiago de Chile

"On a Third Order Abstract Differential Equation"

Abstract:

This talk considers an abstract third-order equation in a Banach space that is motivated by the Moore–Gibson–Thompson Equation arising in high-intensity ultrasound and the Bose-Gorain Equation arising in the study of flexible structures. In its simplest form, with certain specific values of the parameters, this third-order abstract equation is ill-posed. However, a suitable treatment and precise identification of the parameters permits one to show that under certain conditions, it is well posed and that a representation of the solution in terms of certain variation of constant formula is possible. In particular, this formula is used to establish sufficient conditions for the existence and uniqueness of an asymptotically almost periodic solution.

Tuesday, May 15, 2012

10:00 am-12:00 pm

A-207