

The Hong Kong Polytechnic University Department of Applied Mathematics

Seminar on

Studies of Low Order Quadrilateral Finite Element Methods

by

Professor Zhong-Ci SHI Institute of Computational Mathematics Chinese Academy of Sciences

Abstract

Low order quadrilateral finite elements are very efficient in engineering applications. In this talk we will discuss convergence and super-convergence properties of some low order nonconforming finite elements, namely the Wilson element, the rotated Q_1 element and its extension from usual rectangular meshes to general quadrilateral. Numerics are presented to confirm theoretical studies.

Date: 3 February 2006 (Friday)

Time : 2:30 - 3:30 p.m.

Venue : Departmental Conference Room HJ610

The Hong Kong Polytechnic University

* * * ALL ARE WELCOME * * *