

# EML6067 – FINITE ELEMENTS I

## REVIEW PAPER:

A review paper is basically a critical review of papers related to one specific area. A full review paper comprehensively covers ongoing research in the field and is therefore generally lengthy and has a substantial list of references (Example review papers are provided in Webcourses). For this assignment you will provide an **annotated review** of a subject of your interest related to Finite elements. This is substantially shorter than a full review but with similar goals.

**Subject** - Pick a subject area of interest to you related to Finite elements.

(egs. Finite elements analysis of ceramic-metal interfaces, Finite element analysis of crack propagation, etc).

Find no more than **2 – 4** journal articles related to the topic. Content for the paper can be derived from any scientific journals.

After selecting the articles, read them carefully, and think critically about what you have read. You will then prepare a short review. About the first third of your review should be a synopsis of the papers, inclusive of methods and main results. The remainder of the review should offer a critique of the papers, and present some creative thoughts for future questions to be addressed.

For example, you **may** include your thoughts on one or more of the following:

- Does this paper significantly add to the understanding of the subject area by the scientific community?
- Are the methods used in the work sufficient to support the conclusions drawn by the authors?
- Does the finite element analysis work complement or perhaps replace potential experiments to support the findings?
- What doors does this work open for future research in this field?
- How are the results applicable to industry?

**Formatting** – Use the full review examples on Webcourses to help develop your annotated review (keeping in mind that your paper is a much shorter, summary version). The document must be typed and double-spaced. The title, author (yourself), abstract, and keywords should be given first. The main body of the paper should consist of various sections. Relevant tables and figures can be included.

**8-10 pages(no more)**

Due Date – March 27th 2012

Submission – online via Webcourses