

ASEN 6367 Advanced Finite Element Methods Spring 2009

Homework # 4. Chapters 8 and 10 of Notes

Due Thursday February 19, 2009

Please do not forget to attach this cover sheet to your returned homework

Two exercises:

8.3. Most of the answer is given in the hints. Some equations had incorrect numbers when material was moved from Ch 8 to Ch 9. Please reprint page 8-12.

10.1. Exercise was reworded. Please reprint page 10-13.

Grading weights: worth in pts is annotated at the beginning of each Exercise.

Notes and Announcements

Chapters 9 and 11 will be skipped pending material restructuring. We will go from 10 to 12.

The two exercises link mixed and hybrid methods. This will be useful for some upcoming element formulations that need a combination of both principles to cover arbitrary shapes.

The first computer based homework, on axisymmetric solid problems, will be assigned next week by Feb 18. A complete axisymmetric FEM program will be posted in the index of Ch 13.

The first midterm exam will be a take home to be assigned tentatively in the first week of March. Will check in class as to schedule.