

MECH 151 Project Spring 2010

This will be a modest project using the tria3 elements given in class. Each person is to pick a problem, make a model, do some design studies, and give a short class presentation.

There are several possible problems in your text, section 7.7. The ones I see that might be suitable are

- Fig. 7-19, bicycle wrench.
- Fig. 7-20a, beam spot-welded to column
- Fig. 7-21, overload protection device
- Fig. 7-22, tapered plate with hole (a bit boring)
- Fig. 7-23, Dam (a plane strain problem requiring minor mods to tria3 which I can provide)
- Fig. 7-24, tooth implant (ouch)
- Problem 7.12, connecting rod
- Problem 7.25, wrench
- Problem 7-28, canopy hook
- Or some other 2-D problem of your choice

When you have a tentative selection, talk to me about design iterations you might do.