

## PS #2

Due: 2/9/10 Tue Lab

Due: 2/12/10 Fri Lab

Objectives

1. To determine the forces and displacements of a simple statically indeterminate problem.
2. Set-up a simple finite element problem.

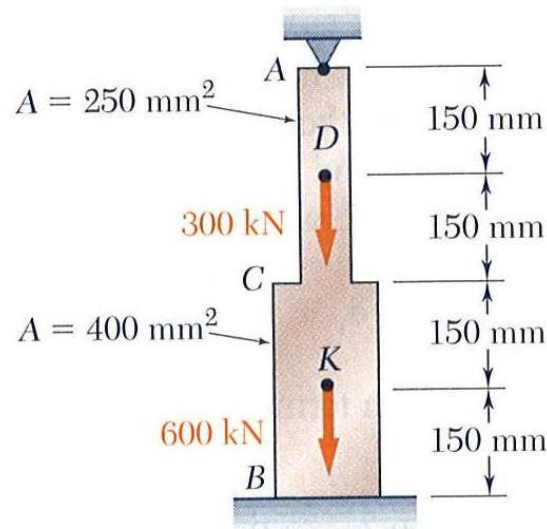
The Problem

Fig. 2.28

Determine the internal forces, reactions and displacements for the “Beer, Johnston & DeWolf - Mechanics of Materials - 4<sup>th</sup> Edition” text problem shown above using finite element analysis on EXCEL. Also try the problem with a support movement at “A” of 0.018mm “up”.