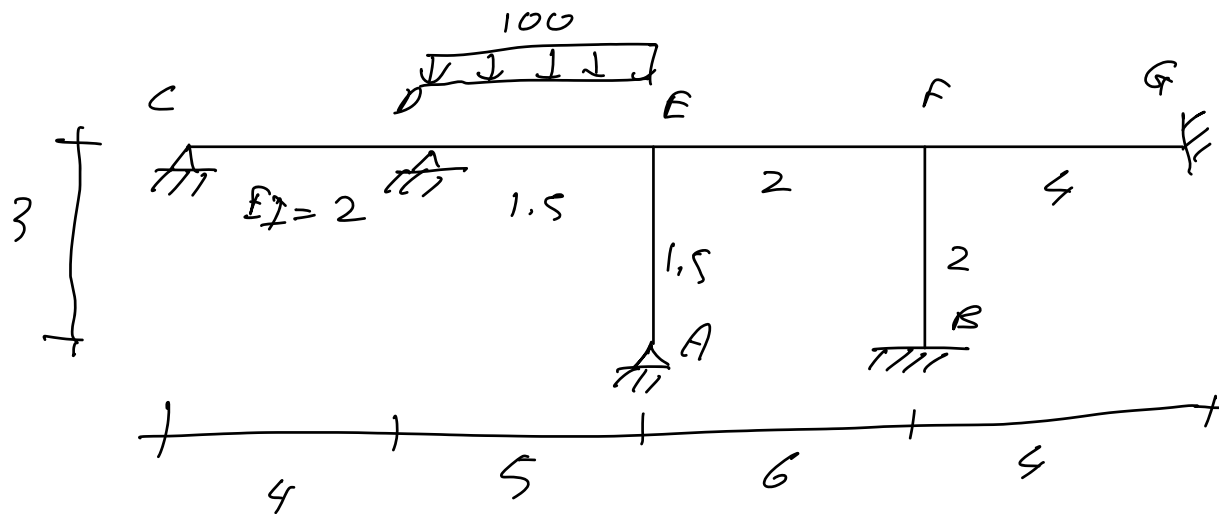
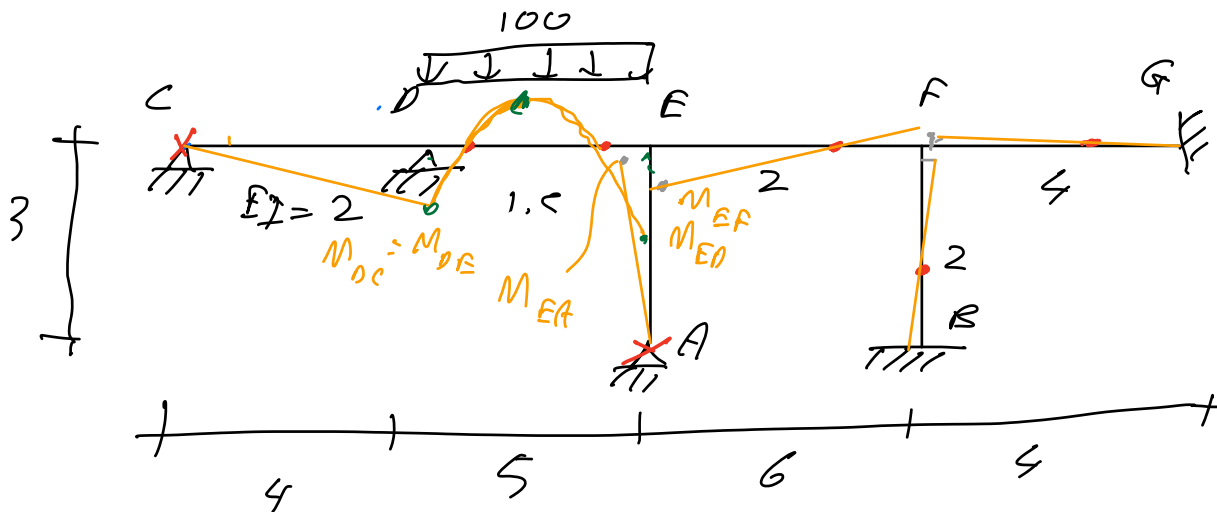
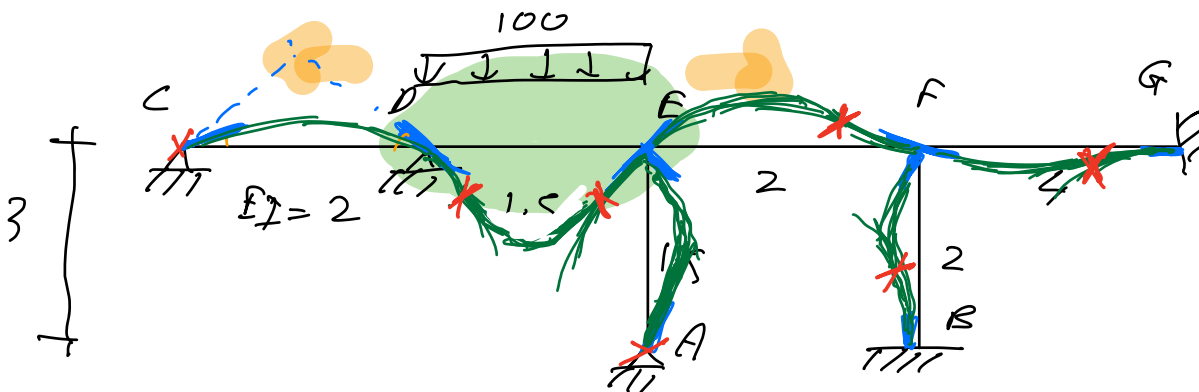


CIE 418: Lecture 9, Dec 6

- Look at assignments:
 - problem areas
 - Start Plastic Limit Analysis
-



- Sketch deflected shape
- Sketch moment diagram

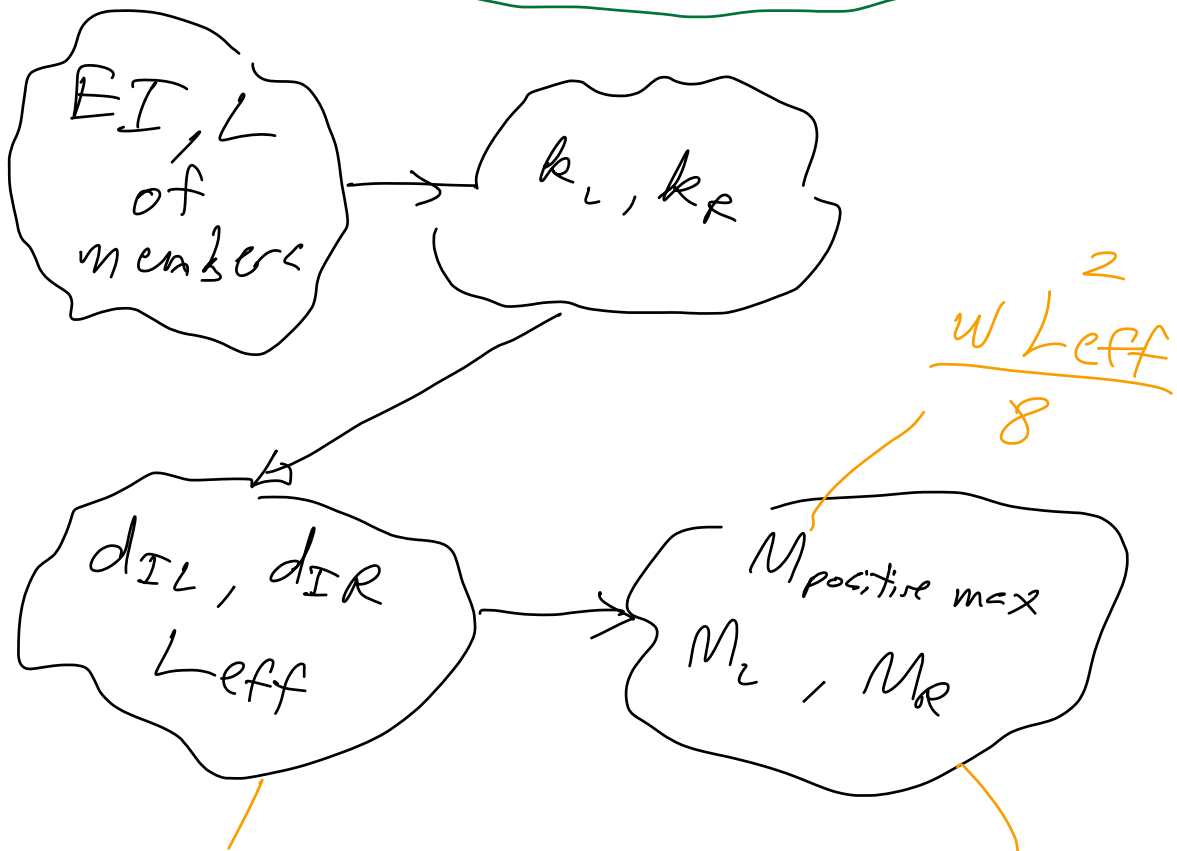


- Isolate loaded member
- Find left and right rotary spring factors

$$k_L = \frac{3\left(\frac{EI}{L}\right)_{CD}}{4\left(\frac{EI}{L}\right)_{DE}}$$

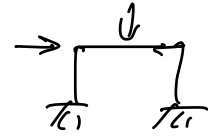
factor — $k_R = \frac{3\left(\frac{EI}{L}\right)_{EA} + 4\left(\frac{EI}{L}\right)_{EF}}{4\left(\frac{EI}{L}\right)_{DE}}$

stiffness M



$$d_I = \frac{0.92 k}{3 + 4 k} \times L$$

Plastic Limit Analysis



→ See notes