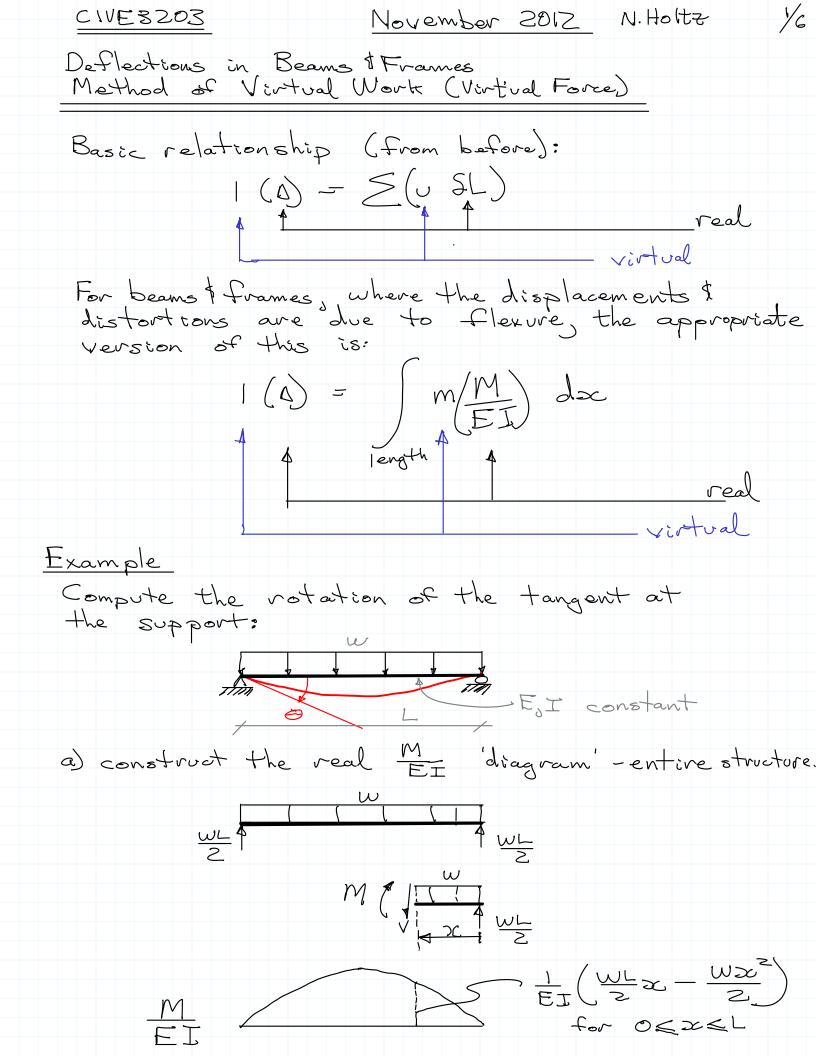
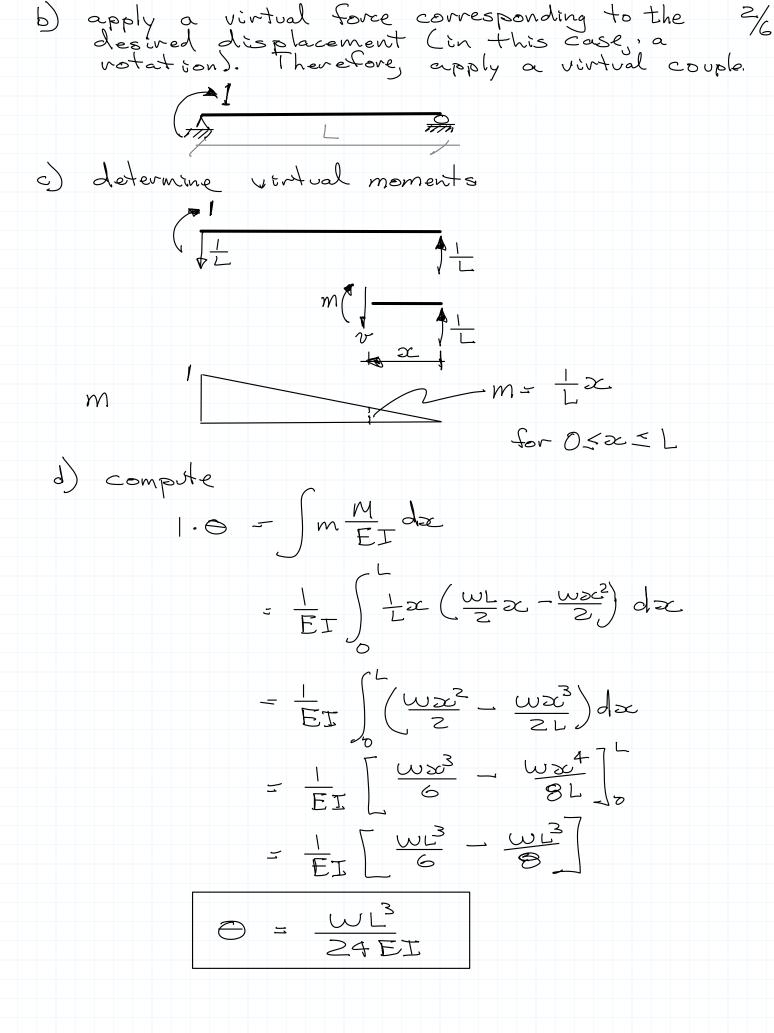
CIVE 3203

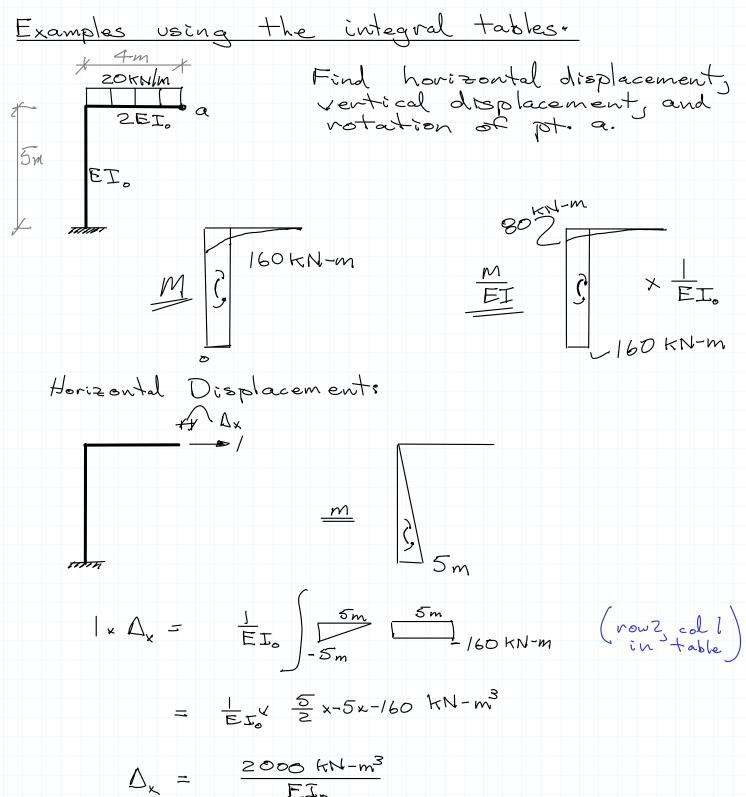
Displacements
in Beams & Frames
using
Virtual Work

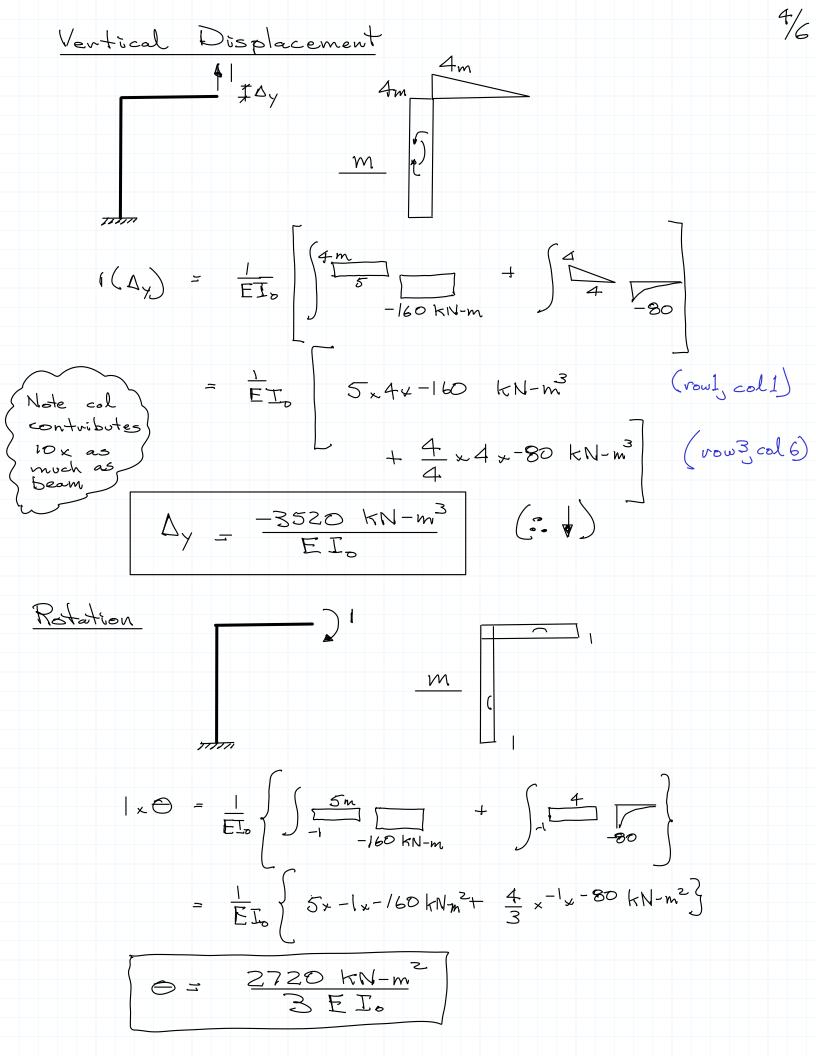
N. Hotz November 2012 November 2019

Revision History:

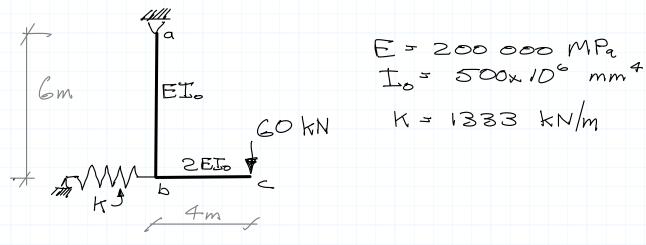






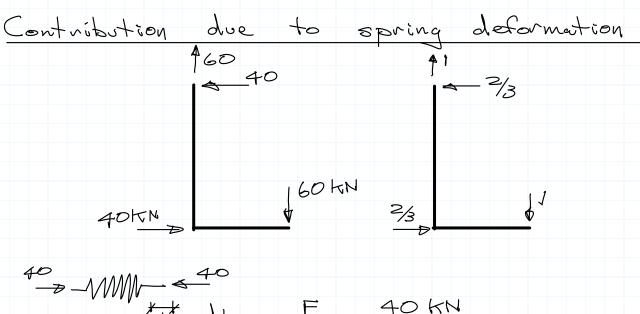


Combining axial & flexural effects



Compute vertical displacement of pt. C.

Contribution of flexure:



$$\frac{40}{7} - MM - 40$$

$$\frac{40}{1333} + \frac{40}{1333} + \frac{40}{1$$

$$1(A) = \sum_{3} \times 30mm$$

$$= 20 mm$$