CIVE 3203

Displacements

due to

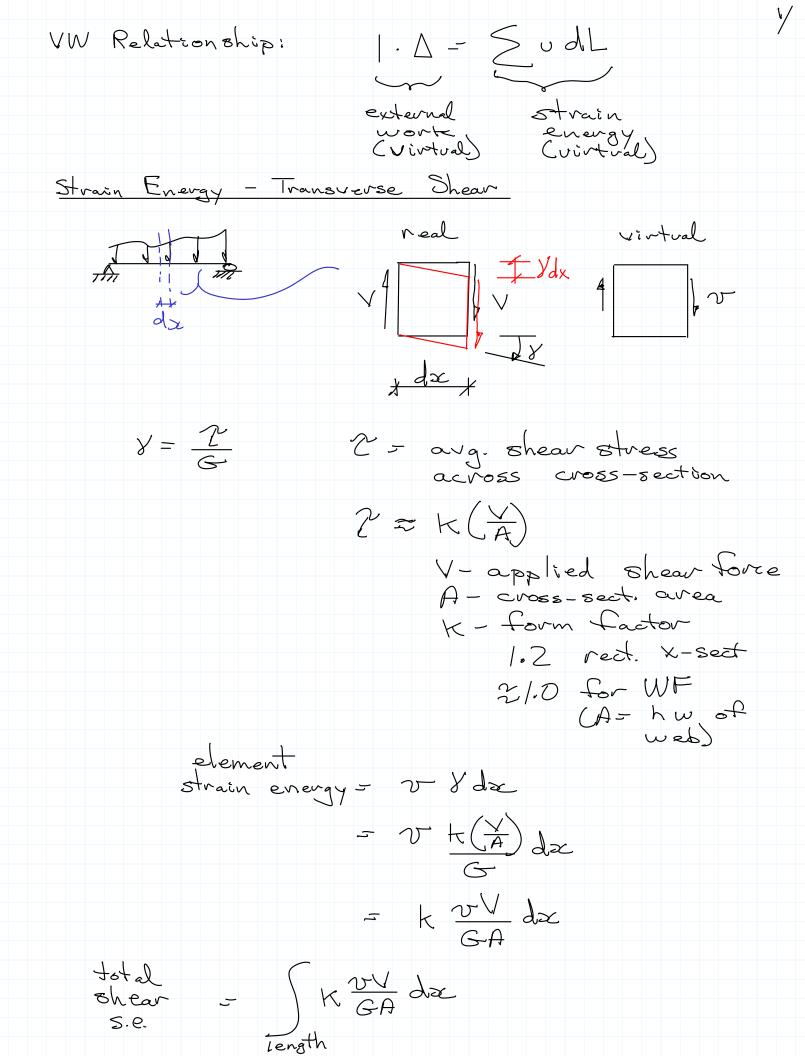
Shear

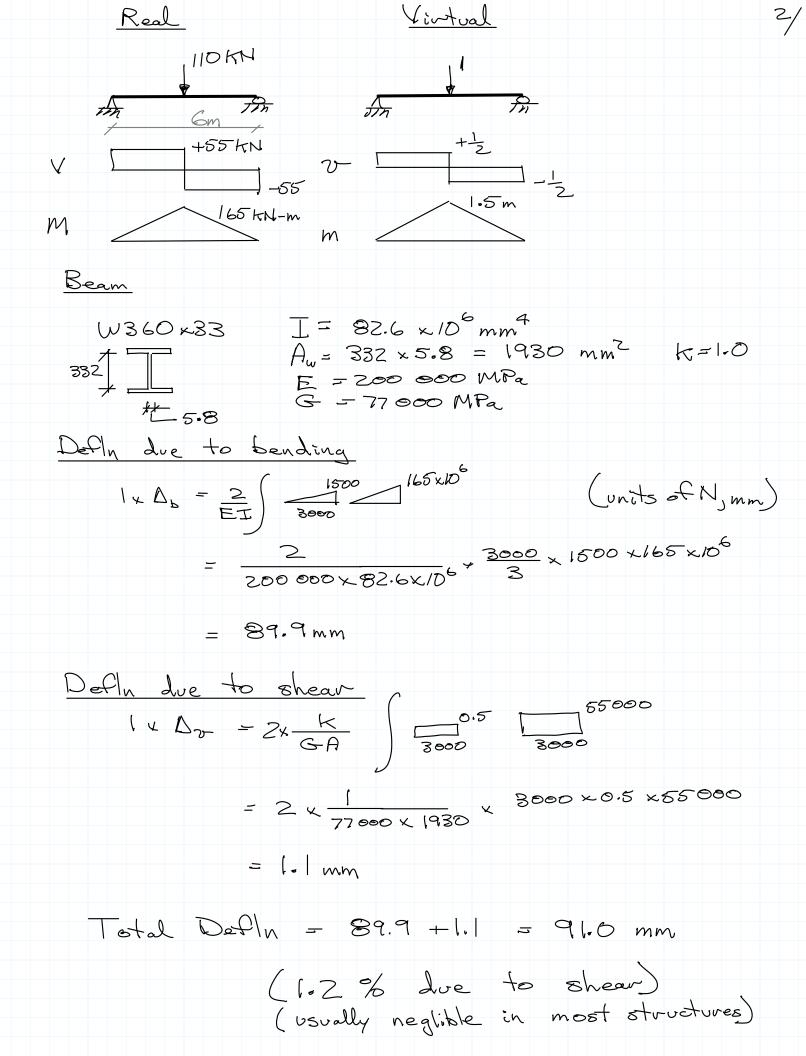
by

Virtual Work

Nov. 2017 Nov. 2019

Revision History:
1. Nov. 13, 2012 - original posting.





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Circular Shafts Total S.E. in shaft:

U, LTL

J-polar moment
of inertia = Tr

Summary S.E.

axial loads

nNL AE

torston Ccircular shaff)

tTL GJ

beam (flexure)

mM dx EI

beam (shear)

 $\int \frac{v}{GA} dx$ 

(K = form faston) 1.0 < K < 1.2)

These affects must be combined, where appropriate, in the right side of 1(A) = 5 wall

= 2 strain energy (virtual)

Chapter 9 (in text) differential temp (p 372) not covered (though temp changes in trusses is) 9-7 Captiglianois Theorem - not covered.

