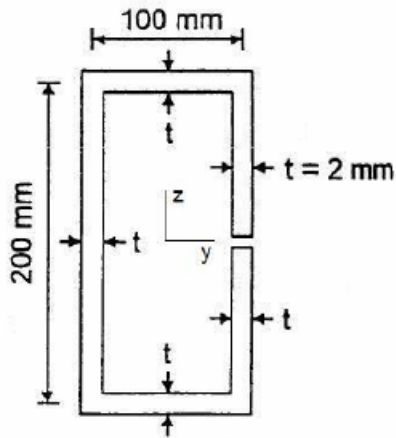# EAS4200C Aerospace Structures Homework #8 (Due: Nov. 6th)

1   Find the flexural shear flow produced by the transverse shear force $V_z = 1,000N$ in the beam with the thin-walled section given in the figure. Sketch the shear flow on the cross-section. Assume that V_z is applied at the shear center.

2.   Find the shear center of the cross-section above.

3.   Find the shear flow for the three-stringer section shown in the figure for $V_z = 5,000N$ and $V_y = 0$. Given shear modulus $G = 27GPa$, find the twist angle per unit length. Also determine the shear center. Is the shear flow statically determinate?