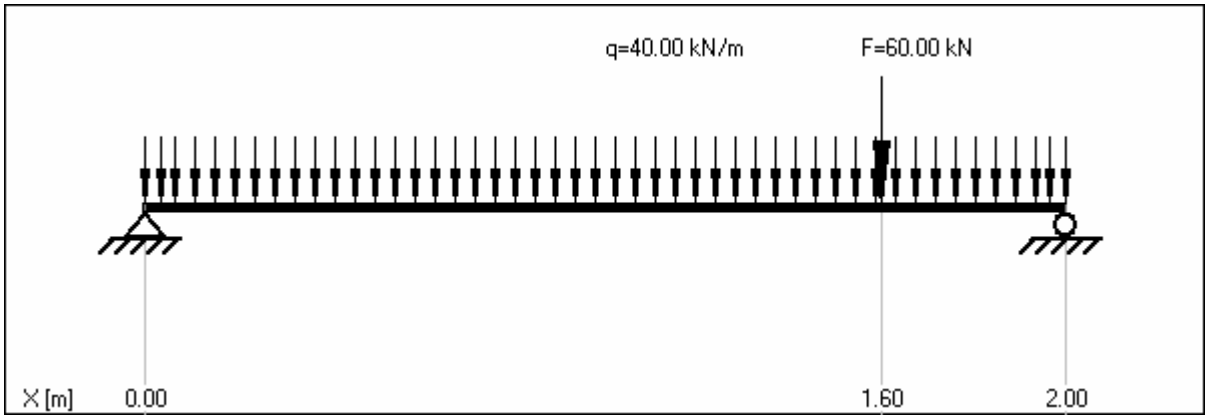
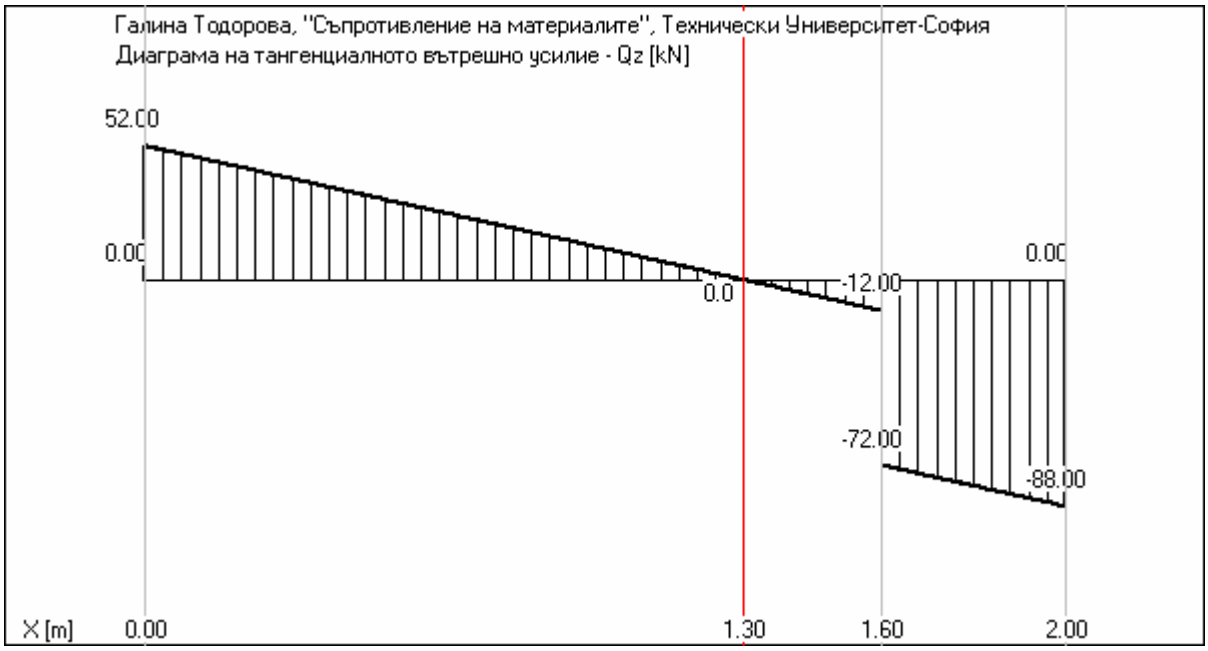
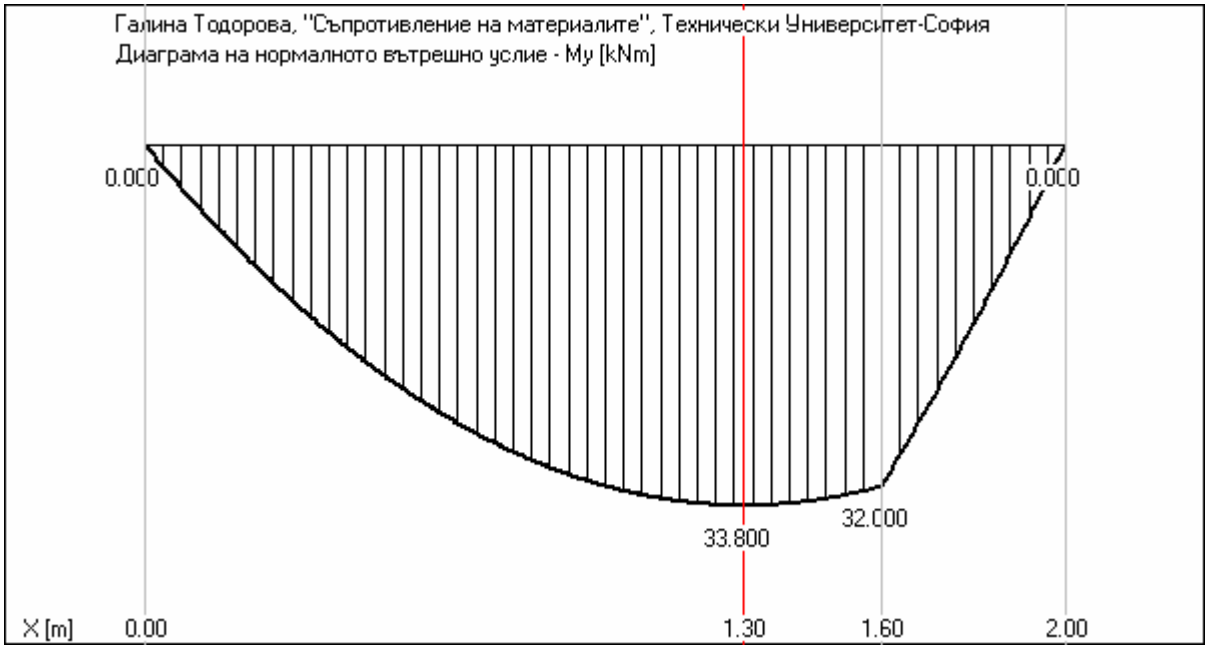
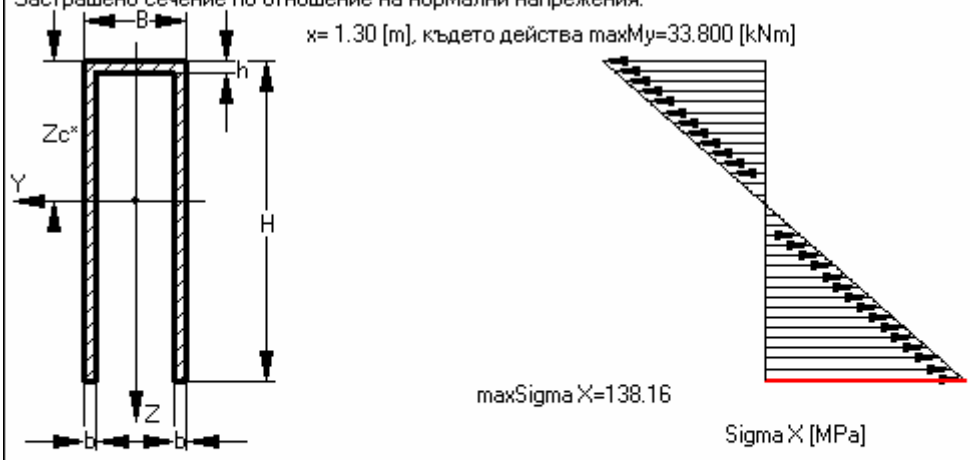
За показаната греда да се направи якостна проверка по III-та якостна теория, ако е дадено $\sigma_{доп}$=120 MPa
(условие с отговори)





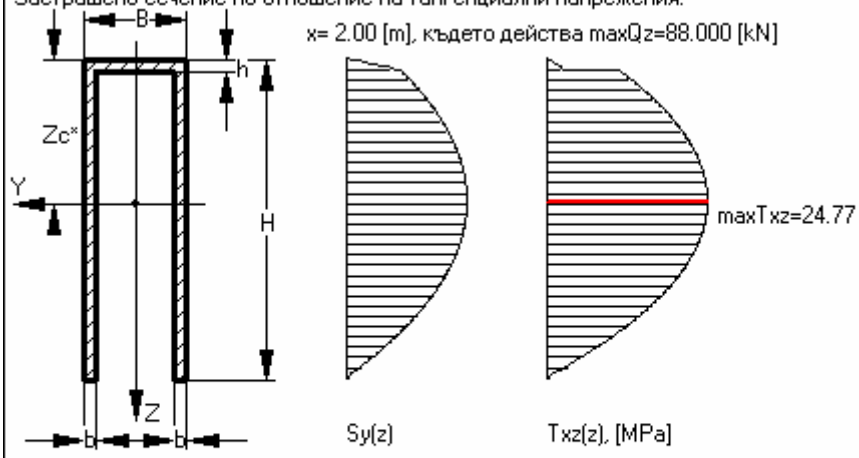


Застрашено сечение по отношение на нормални напрежения:

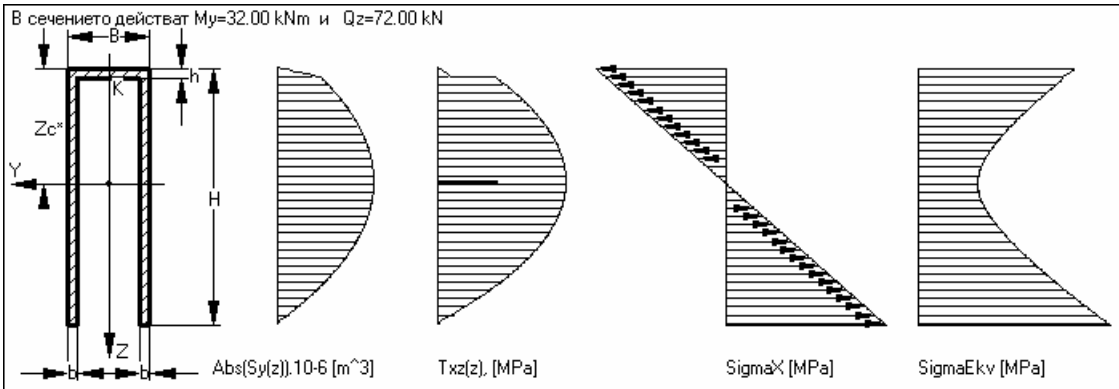


H=250 [mm]
B=80 [mm]
h=10 [mm]
b=10 [mm]
Zc*=112.14 [mm] Jy=3376.10 [sm^4]

Застрашено сечение по отношение на тангенциални напрежения:



В сечението действат My=32.00 kNm и Qz=72.00 kN



Abs(Sy(z)).10-6 [m^3]
Abs(Sy(Z=Z,K))=85.6
maxAbs(Sy(z))=189.64

Txz(z), [MPa]
Txz,K=9.13
maxTxz=20.22

SigmaX [MPa]
SigmaX,K=-96.68
maxSigmaX=130.80

SigmaEkv [MPa]
SigmaEkv,K=98.39
maxSigmaEkv =130.80