$M_{B\,max} = -3729\,Kgm$

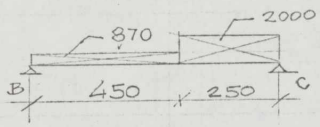
$M_{C\,max} = -5028\,Kgm$

$M_{D\,max} = -2244\,Kgm$

Veld moment:

$$M_{AB_{max}} = 870 \times 2.77^2 \times 0,125 - \frac{1709}{2} = -19\ Kgm$$

$M_{\overset{\leftrightarrow}{BC}\,max}$;



$$R_C = 870 \times 3,50 + \frac{1230 \times 2,5}{2 \times 7,0}(2 \times 7,0 - 2,5) = 5630\,Kg$$

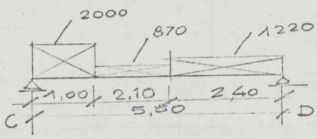
$$5630 - 870 \times X - 1230 \times 2.5 = 0 \;;\; X = 2,94\,m$$

$$M_{\overset{\leftrightarrow}{BC}\,max} = 5630 \times 2,94 - 1230 \times 2,5 \times 1,69 - 870 \times \frac{2,94^2}{2} =$$

$M_{\overset{\leftrightarrow}{BC}\,max} = 7598\,Kgm$

$$M_{BC\,max} = 7598 - \frac{3636 + 4470}{2} = 3545\,Kgm$$

$M_{\overset{\leftrightarrow}{C-D}\,max}$;



$$R_D = 870 \times 2,75 + \frac{1230 \times 1,00^2}{2 \times 5,5} + \frac{350 \times 2,40}{2 \times 5,5}(2 \cdot 5,5 - 2,4) = 3167\,Kg$$

$$3167 - 870 \cdot X - 350 \times 2,4 = 0 \;;\; X = 2,68\,m$$

$$M_{\overset{\leftrightarrow}{CD}\,max} = 3167 \times 2.68 - 1220 \times 2,40 \times 1,45 - 870 \times 2,8 \times 0,14 =$$

$M_{\overset{\leftrightarrow}{CD}\,max} = 4113\,Kgm$