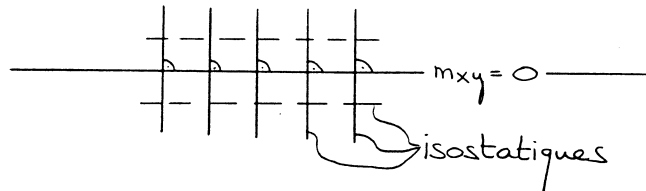


Rappel

isostatiques:

- si $m_{xy} = 0 \rightarrow$ facette principale

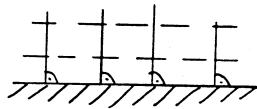


axes de symétries

$$m_{xy} = 0$$

bord encasté

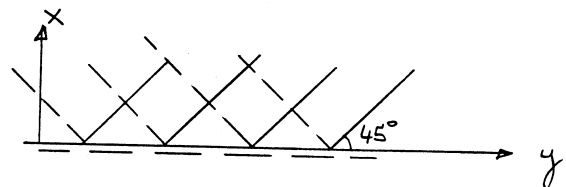
$$m_{xy} = 0$$



bord simplement appuyé

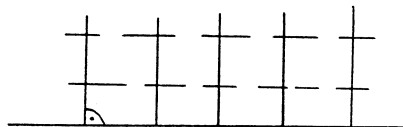
$$m_x = 0 \rightarrow \frac{\partial^2 W}{\partial x^2} + \nu \frac{\partial^2 W}{\partial y^2} = 0$$

$$\frac{\partial^2 W}{\partial y^2} = 0 \rightarrow m_y = 0$$



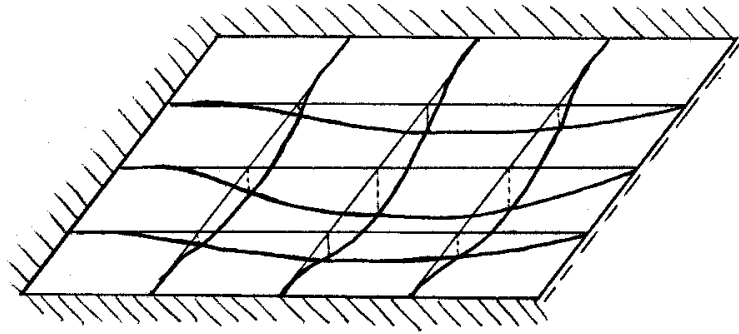
bord libre

$$\text{où } m_{xy} = 0$$

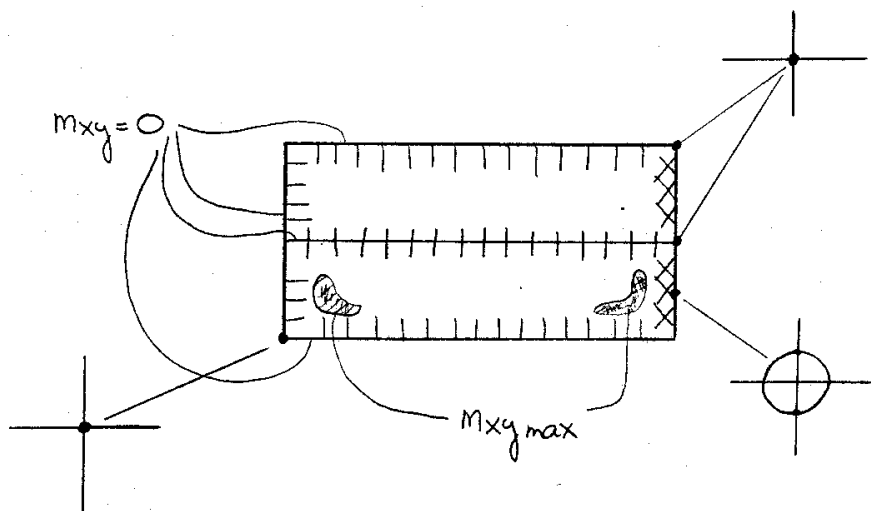
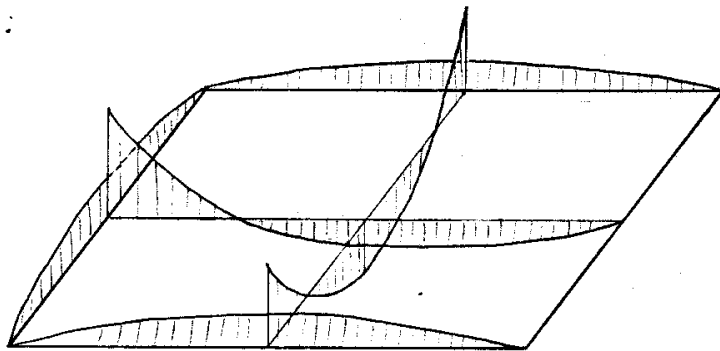


Première plaque:

déformée

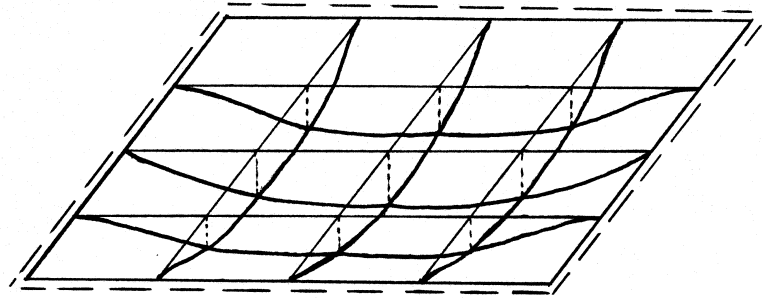


moments :

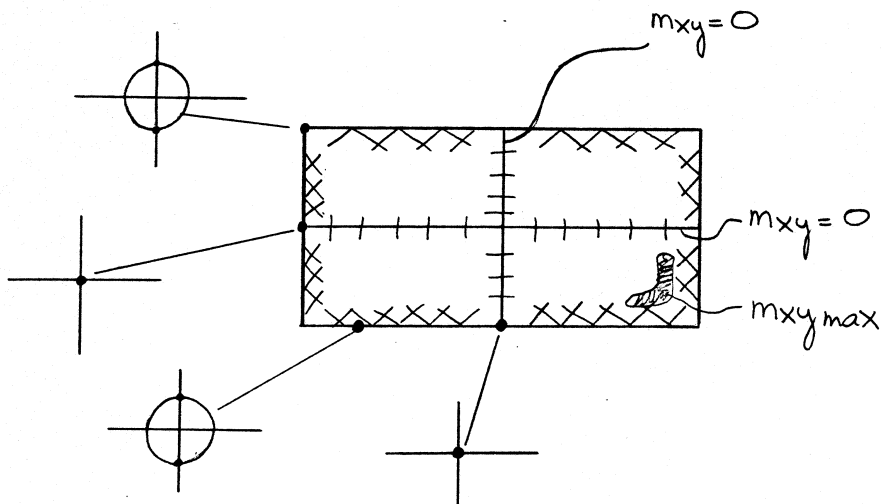
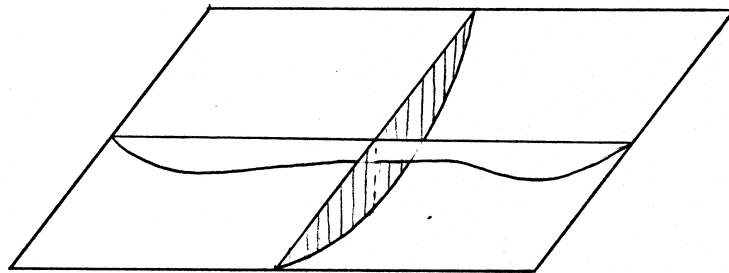


Deuxième plaque:

déformée :

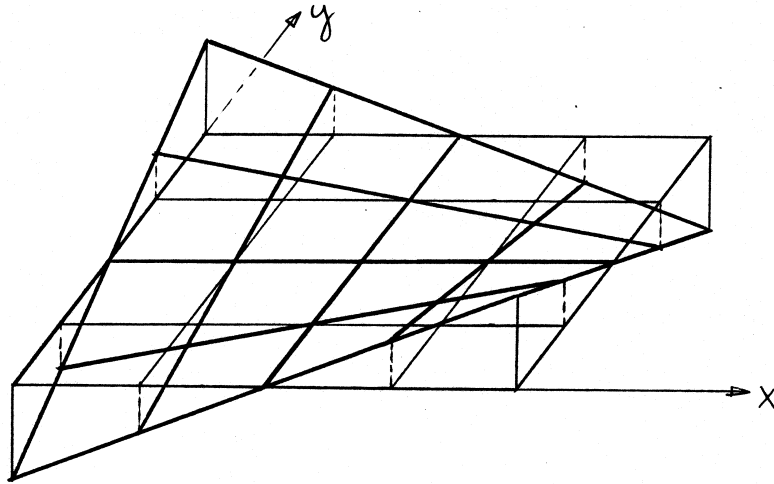


moments :

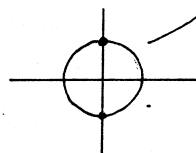
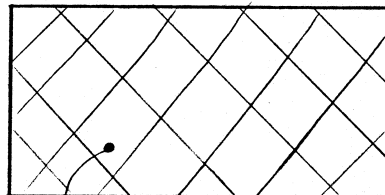
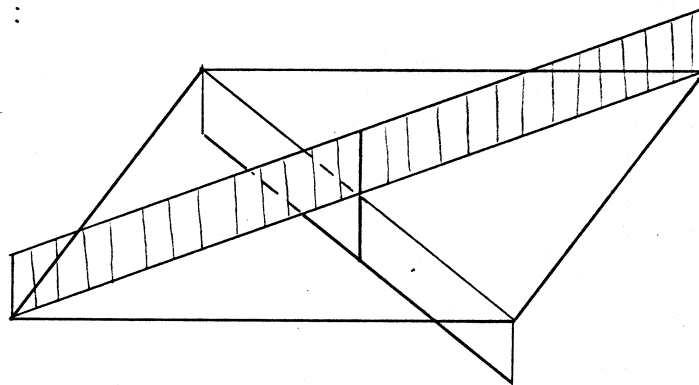


Troisième plaque:

déformée: $w = C \cdot x \cdot y$



moments:



$m_{xy} = \text{constante}$