



מקרה 1: סקלר המורכב משני איברים

$$\frac{\partial y_{i,j}}{\partial x_{a,b}} = \begin{cases} K_0 \frac{\partial y_{i,j}}{\partial x_{0,b}} & \text{שורה ראשונה} \\ K_1 \frac{\partial y_{i,j}}{\partial x_{2,b}} & \text{שורה שנייה} \end{cases}$$

מקרה 2: סקלר המורכב משלושה איברים

$$\frac{\partial y_{1,i}}{\partial x_{a,b}} = K_0 \frac{\partial y_{1,i}}{\partial x_{1,b}} + K_1 \frac{\partial y_{1,i}}{\partial x_{1,b}}$$

$$\frac{\partial C}{\partial x_{a,b}} = \frac{\partial C}{\partial y_{i,j}} \begin{cases} K_0 \frac{\partial y_{i,j}}{\partial x_{0,b}} & \text{מסלול} \\ K_1 \frac{\partial y_{i,j}}{\partial x_{2,b}} & \text{מסלול} \\ K_0 \frac{\partial y_{i,j}}{\partial x_{1,b}} + K_1 \frac{\partial y_{1,i}}{\partial x_{1,b}} & \text{מסלול} \end{cases}$$

$$\frac{\partial y_{i,j}}{\partial x_n} = \begin{cases} \sum_{a=0,1|b=0:2} x_{a,b} \frac{\partial y_{i,j}}{\partial K_0} & (h=0) \\ \sum_{a=1,2|b=0:2} x_{a,b} \frac{\partial y_{i,j}}{\partial K_1} \end{cases}$$

$$\frac{\partial C}{\partial x_n} = \frac{\partial C}{\partial y_{i,j}} \cdot \frac{\partial y_{i,j}}{\partial x_n}$$