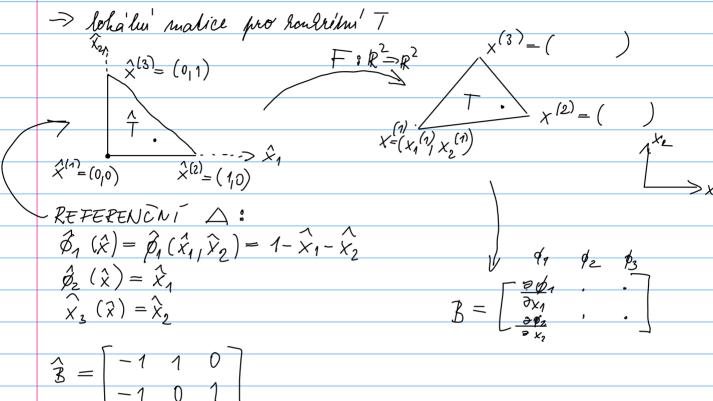
$$A_{ij} = \sum_{T} \int \ell(x) D \ell_j(x) \cdot D \ell_i(r) dx$$

x=(x1, x2) ER2

Lyrck norskine marlice souskay



$$\mathbb{R}(x): \mathbb{R}^2 \to \mathbb{R}^2$$

 $A_{\uparrow} = \frac{1}{2} \hat{\beta}^{T} K \hat{\beta} \qquad \text{anisotropu' material kipristruluary'}$ $\square \cdot \square \cdot \square \qquad \text{na } T \text{ material } K \in \mathbb{R}^{2\times 2}$

$$A \hat{\uparrow} = \frac{1}{2} k \hat{B}^T B \dots \text{ inotropu' makeria'l representany' } k \in \mathbb{R}$$

$$206r02\mu 'F : \mathbb{R}^{2} \to \mathbb{R}^{2} \quad (\hat{7} \to 7)$$

$$F(\hat{x}) = F(\hat{x}_{1}|\hat{x}_{2}) = (F_{1}(\hat{x}_{1}|\hat{x}_{1}), F_{2}(\hat{Y}_{1}|\hat{x}_{2}))$$

liborolu' bool (x_1/X_2) suojubelrihu T $X_1 = F_1(\hat{Y}_1, \hat{X}_2) = X_1^{(1)} + \hat{X}_1(X_1^{(2)} - X_1^{(1)}) + \hat{X}_2(X_1^{(3)} - X_1^{(1)})$ $X_2 = F_2(\hat{X}_1, \hat{Y}_1) = X_2^{(1)} + \hat{X}_1(X_2^{(2)} - X_2^{(1)}) + \hat{X}_2(X_2^{(3)} - X_2^{(1)})$ $DF = \begin{bmatrix} X_1^{(2)} - X_1^{(1)} & X_1^{(3)} - X_1^{(1)} \\ X_2^{(2)} - X_2^{(1)} & X_1^{(3)} - X_2^{(1)} \end{bmatrix}$

$$X = F(\hat{x}) = X^{(1)} + DF\hat{x}$$

$$\det \mathcal{D} \neq = |\mathcal{D} \neq | = \left[\begin{array}{c} \chi_{1}^{(2)} - \chi_{1}^{(1)} \right] \cdot \left[\chi_{2}^{(3)} - \chi_{2}^{(1)} \right] - \\ - \left[\begin{array}{c} \chi_{2}^{(2)} - \chi_{2}^{(1)} \end{array} \right] \cdot \left[\begin{array}{c} \chi_{1}^{(3)} - \chi_{1}^{(1)} \end{array} \right]$$

$$|1 \chi_{1}^{(1)} \chi_{2}^{(1)}|$$

$$|1 \chi_{1}^{(2)} \chi_{2}^{(2)}| = \det \mathcal{D} \neq = \mathcal{L} \cdot |\mathcal{T}|$$

$$|1 \chi_{1}^{(3)} \chi_{2}^{(3)}| \times \mathcal{L}^{(3)}$$

Barrove' funkæ:
$$\widehat{\mathcal{D}}_{i} = \widehat{\mathcal{D}}_{i} \circ F$$

$$\widehat{\mathcal{D}}_{i}(\widehat{\mathcal{X}}_{1},\widehat{\mathcal{X}}_{2}) = \widehat{\mathcal{D}}_{i}(x_{1},y_{2}) = \widehat{\mathcal{D}}_{i}(F_{1}(\widehat{\mathcal{X}}_{1},\widehat{\mathcal{X}}_{2}),F_{2}(\widehat{\mathcal{X}}_{1},\widehat{\mathcal{X}}_{2}))$$

$$\frac{\partial \cancel{p_i}}{\partial \cancel{x_1}} = \frac{\partial \cancel{p_i}}{\partial \cancel{x_1}} \cdot \frac{\partial \cancel{F_1}}{\partial \cancel{x_1}} + \frac{\partial \cancel{p_i}}{\partial \cancel{x_2}} \cdot \frac{\partial \cancel{F_2}}{\partial \cancel{x_1}}$$

$$\frac{\partial \cancel{p_i}}{\partial \cancel{Q}_2} = \frac{\partial \cancel{p_i}}{\partial \cancel{X}_1} \cdot \frac{\partial \cancel{F}_1}{\partial \cancel{X}_2} + \frac{\partial \cancel{p_i}}{\partial \cancel{X}_2} \cdot \frac{\partial \cancel{F}_2}{\partial \cancel{X}_2}$$

$$\nabla \hat{\beta}_{i} = D + T \quad \nabla \hat{\beta}_{i}$$

$$\begin{bmatrix}
\frac{\partial \hat{\beta}_{i}}{\partial \hat{x}_{1}} \\ \frac{\partial \hat{\beta}_{i}}{\partial \hat{x}_{2}}
\end{bmatrix} = D + T \quad \begin{bmatrix}
\frac{\partial \hat{\beta}_{i}}{\partial x_{1}} \\ \frac{\partial \hat{\beta}_{i}}{\partial x_{2}}
\end{bmatrix}$$

slaufer masice &

$$\hat{B} = DF B$$

$$B = DF^{-T} \hat{B} = DF^{-T} \cdot \begin{bmatrix} -1 & 1 & 0 \\ -1 & 0 & 1 \end{bmatrix}$$
where

$$A_{+} = B^{T} \times B \cdot |T| = \hat{3}^{T} D + \frac{1}{2} \times D + \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac{1}{2} \cdot \frac{1}{2} |D + | = \frac$$