$A_{+} = 3^{T} K B \cdot 17$

2d MKP - riseny wlow

· A anirobrofum'an makerialem

$$-\operatorname{diw}\left(K \operatorname{Du}\right) = f \qquad \left(K : \mathbb{R}^2 \to \mathbb{R}^{2\kappa^2}\right) \qquad \Omega = (O_1 L_1) \star (O_1 L_2)$$

· s reallisium olenem

· s konvellinim olinen

-div
$$(k Du) + q_1 \frac{\partial u}{\partial x_1} + q_2 \frac{\partial u}{\partial x_2} = f$$

(kado'na oblan + vkrajon' podminky)

 $(k, k, q_1, q_2 : \mathbb{R}^2 \rightarrow \mathbb{R})$

Vola s reaktivním členem

rariační fermulace

$$SK DW TN dx + Sko w N dx = Sf N dx + ST N ds$$

$$\alpha(u_1 n)$$

technika referencimbo prvku (shrmuti)

$$X = F(x) = X^{(4)} + DFx^{(4)}$$

2. bad reference has grober 1

bad obeinitho proku

$$\widehat{\mathcal{Y}}_{i}(\widehat{x}_{1},\widehat{x}_{2}) = \widehat{\mathcal{Y}}_{i}(\underbrace{\mathcal{F}_{1}(\widehat{x}_{1},\widehat{x}_{2})}_{x_{1}},\underbrace{\mathcal{F}_{2}(\widehat{x}_{1},\widehat{x}_{2})}_{x_{2}})$$

 $A_{ij} = \sum_{T} \int_{T} \ell(x) \nabla l_{j}(x) \nabla l_{i}(x) dx, + \sum_{T} \int_{T} \ell_{o}(x) l_{j}(x) l_{i}(x) dx,$ making making

$$+\sum_{T}\int_{T}\ell_{o}(x)P_{j}(x)P_{i}(x)dx$$

 $X = (X_1, X_2)$

Conache mij, T = 5 ko (x) G'(x) Pi (x) dx ... prek lokáhu malie "hushodi"

par $k_0(x)$ konstantin': $m_{ij,T} = k_0 \int_{-T}^{T} Y_j(x) Y_i(x) dx$

$$\widehat{m}_{j|\hat{T}}(m_{x}) \text{ reference } n_{y}(m_{y}) = k_{0} \int_{\hat{T}} \widehat{\varphi}_{i}(\hat{x}) \widehat{\varphi}_{i}(\hat{x}) d\hat{x} = k_{0} \int_{\hat{T}} \varphi_{j}(f(\hat{x})) Y_{i}(f(\hat{x})) d\hat{x}$$

Note.
$$M_{ij}$$
, T passes M_{ij} , T
 M_{ij} passes M_{ij} , T
 M_{ij} passes M_{ij} , T
 M_{ij} T = L_0 $\int_{i}^{t} (x) Y_a(x) dx = \begin{bmatrix} CUSSHTUCE \\ x = TCS \\ dx = 10FIdS \end{bmatrix} = L_0 \int_{i}^{t} (x) Y_a(x) Y_a(x) dx = \begin{bmatrix} CUSSHTUCE \\ x = TCS \\ dx = 10FIdS \end{bmatrix} = 2 |TI|$

$$= 2 |TI| L_0 \int_{i}^{t} Y_a(x) Y_a(x) dx,$$
 M_{ij} $M_$