

6

Folie 5

$$b) \text{ RB 3. Art: } \int_{\Gamma_3} q_2 \varphi_k ds \xrightarrow{\oplus} f^{(k)} \longrightarrow \hat{f}_h$$

$$\int_{\Gamma_3} \alpha(x) \varphi_c(x) \varphi_k(x) ds \xrightarrow{\oplus} \hat{K}_{k,c} \longrightarrow \hat{K}_h$$

Def.  $E_{3,h} := \{e_3 \in \partial \Omega \cap \Gamma_3 : \text{RB 3. Art}\}$

FOR  $e_3 \in E_{3,h}$  DO

FOR  $\tau \in A_{e_3} \subset A = \{1, 2, 3\}$  DO

FOR  $\beta \in A_{e_3}$  DO

BEGIN

$$* \text{ compute } K_{\alpha\beta}^{(e_3)} = \int_{e_3}^r \alpha(x) \varphi_{\alpha}^{(e_3)}(x) \varphi_{\beta}^{(e_3)}(x) dx = \dots$$

$$* \text{ determine } i := i(e_3, \tau) = i(r, \tau)$$

$$j := j(e_3, \beta) = i(e_3, \beta)$$

$$* \text{ update } \hat{K}_{ij} := \hat{K}_{ij} + K_{\alpha\beta}^{(e_3)}$$

END

END FOR

END FOR

END FOR