$$\frac{\partial ancets}{\partial R_{ij}cets} = \frac{hach}{hach}(Cncets) \cdot \delta ni \cdot \delta c_{ij} : \frac{\partial ancets}{\partial G_{ij}cets} = G_{ij}cets \cdot (1 - lan^{2}(Gncets)) \cdot \delta ni \cdot \delta c_{ij} : \frac{\partial Gncets}{\partial G_{ij}cets} = G_{ij}cets \cdot \delta ni \cdot \delta c_{ij} : \frac{\partial Gncets}{\partial G_{ij}cets} = \frac{Cats}{\delta ni} \cdot \delta c_{ij} : \frac{\partial Gncets}{\partial G_{ij}cets} = \frac{Cats}{\delta ni} \cdot \delta c_{ij} : \frac{\partial Gncets}{\partial G_{ij}cets} = \frac{F_{ij}cets}{\delta ni} \cdot \delta c_{ij} : \frac{\partial Gncets}{\partial G_{ij}cets} = \frac{F_{ij}cets}{\delta ni} \cdot \delta c_{ij} : \frac{\partial Gncets}{\partial G_{ij}cets} = \frac{f_{ij}}{\delta ni} \cdot \frac{\partial Gncets}{\delta ni} = \frac{f_{ij}}{\delta ni} \cdot \frac{f_$$

$$\frac{\partial K}{\partial U_{ij}^{*}(A-I)} = \sum_{R=1}^{M} \frac{\partial L}{\partial C_{R}C_{R}A} \frac{\partial L}{\partial C_{R}A} \frac{\partial L}{\partial C_{R}A} \frac{\partial L}{\partial C_{$$

$$\frac{\partial \mathcal{L}}{\partial u_{kj}} = \sum_{e=1}^{M} \frac{\partial \mathcal{L}}{\partial u_{ej}} - \nabla_{op} c_{k} \cdot (1 - \nabla_{op} L_{k}) \left(a_{2} + 1 - x_{k} \cdot x_{k} + b_{e}\right)_{i} \right) \left[a_{2} + (1 - x_{i} \cdot x_{k} + b_{e})_{i} \cdot (1 - x_{i} \cdot x_{k} + b_{e})_{$$

```
- Pechonized ryploven betton.
 dTo 2+> = da_next * hanh ( C-next )
 d Ff 2+5 = (da-next * To 2+5 * (1-) HdADE) + dC-next ) * (2+-1>
  d Tu <+> = (da nxt * To <+> * (1-tanh (C-naxt) + dC-next) + c2+>
   dCz+s = (da_uxt * To <+> * (1 - Pewh (C-vext)) + dC_vext) * Tu <+>
   dwf = [dt]2+> * tq2+> * (1-172+>)]- (a-prev) T
   d Wo = [d To 2+3 * To 2+3 + (1- To 2+3)]. ( a-prov) ( x2+3)
    d Wa = [d[acts + [acts + (1-Tucts)] - (a-prev)
    dW_{c} = \left[ d\mathcal{E}_{2+5} * \left( 1 - \frac{buh^{2}(W_{c} \left[ azt-1 \right), xz+5] + bc}{2} \right) \right] \left( \begin{array}{c} a-p \cdot ev \\ xz+5 \end{array} \right)
d[act-1>7 = Wf [drf2+> + 17ct> + (1-172+>)]
                + Wot [ alocts + To <+> + (1-16<+>)]
                *+ Wu [ druct> * Tuc+> * (1- Tuc+>)]
                  + Wc [ dcz+> * (1- tau 2 (Wc [azt-1>, xz+>] + bc))]
  dC-preu = (da_next * Foct> * (1-tach (States)) + dC-vext) * Tfct>
                                               C_next
```