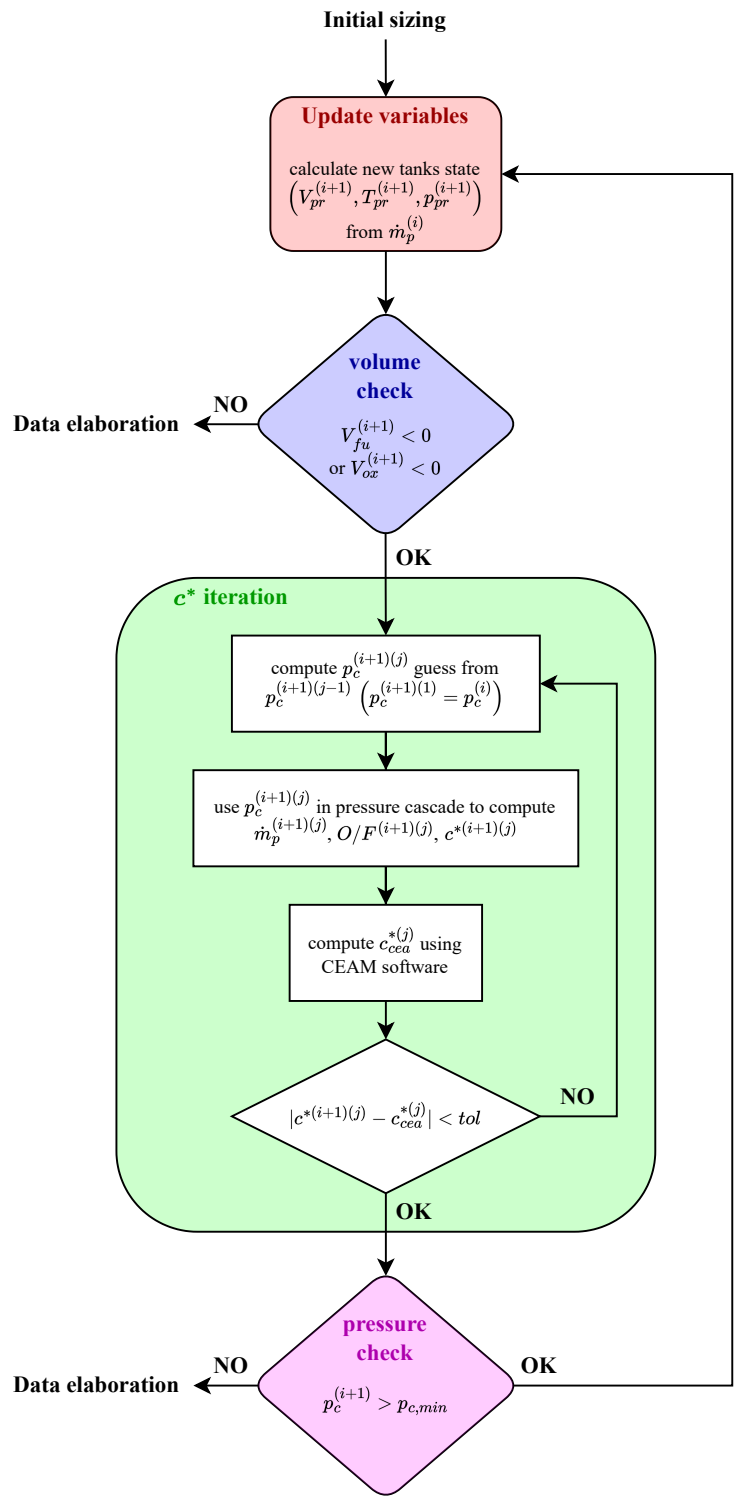
Initial sizing
Update variables
calculate new tanks state
$\left(V_{pr}^{(i+1)}, T_{pr}^{(i+1)}, p_{pr}^{(i+1)}\right)$
from $\dot{m}_p^{(i)}$
volume check
$V_{fu}^{(i+1)} < 0$
or $V_{ox}^{(i+1)} < 0$
NO
Data elaboration
OK
c* iteration
compute $p_c^{(i+1)(j)}$ guess from
$p_c^{(i+1)(j-1)}$ $\left(p_c^{(i+1)(1)} = p_c^{(i)}\right)$
use $p_c^{(i+1)(j)}$ in pressure cascade to compute
$\dot{m}_p^{(i+1)(j)}$, $O/F^{(i+1)(j)}$, $c^{*(i+1)(j)}$
compute $c_{cea}^{*(j)}$ using
CEAM software
$|c^{*(i+1)(j)} - c_{cea}^{*(j)}| < tol$
NO
OK
pressure check
$p_c^{(i+1)} > p_{c,min}$
NO
Data elaboration
OK