$$\left.rac{\mathrm{d}oldsymbol{u}_i}{\mathrm{d}t}
ight|^npprox (1-H_i)\,oldsymbol{R}oldsymbol{H}oldsymbol{S}_i^n+H_ioldsymbol{a}_i^n=oldsymbol{R}oldsymbol{H}oldsymbol{S}_i^n+oldsymbol{S}_i^n$$