NOTATION

u^h: numerical approximation of u

$a^i b_i$: $= \sum_i a^i b_i$

L: PDE operator

∇: Nabla-operator

$u_{,i}$: $= \partial_i u := \frac{\partial u}{\partial x^i}$

δ: Dirac delta-function

Δ: increment

t: time

$\mathbf{v}$: vector $\mathbf{v} = v^i \mathbf{e}_i$ (lower character bf)

$\mathbf{A}$: tensor/matrix $\mathbf{A} = A^{ij} \mathbf{e}_i \otimes \mathbf{e}_j$ (lower character bf)

Ω: domain

Γ: boundary

Whenever possible, logical abbreviations are used, e.g.

$\mathbf{r}$: **r**ight-hand side or **r**esidual vector

$\mathbf{u}$: vector of **u**nknowns

$\mathbf{v}$: **v**elocity vector