Numerical methods and algorithms

1. Special format of graph description was constructed. It allows user to pay no attention to the way how solver treats the topology of vascular graph.

$$\int_{J}^{k} f^{k} + As_{j}^{3} \delta p_{j+1}^{k} + Bs_{j}^{1} \delta u_{j-1}^{k} + Bs_{j}^{2} \delta u_{j}^{k} + Bs_{j}^{3} \delta u_{j+1}^{k} = -Fs_{j}$$

$$\int_{J}^{1} f^{k} = -\left(\frac{u_{j-1}^{k}}{2} + \frac{\alpha_{j-1/2}^{k}}{h}\right) \frac{\sigma_{1}\tau}{h} \theta_{j-1}^{k},$$

- 2. Conservative finite-difference scheme with second order of approximation on each arch of graph was taken as a base. At the same time scheme is homogeneous, so it does not depends
- 3. Two different variants of finitedifference schemes provided for better reliability of numerical calculations.

upon concrete arch.

- 4. The total non-linear system of equations is solved with help of iteration methods (Newton method, successive iterations on coefficients of equations).
- 5. The obtained linear system of equations is solved mainly by direct methods.

$$\beta_{j}^{2} = (1 + (a_{j+1/2}^{k} + a_{j-1/2}^{k}) \frac{\sigma_{1}\tau}{h^{2}}) 6$$

$$\beta_{j}^{3} = (\frac{u_{j+1}^{k}}{2} - \frac{a_{j+1/2}^{k}}{h}) \frac{\sigma_{1}\tau}{h} \theta_{j+1}^{k},$$

$$Bs_{j}^{3} = -\frac{\sigma_{1}\tau}{2h} s_{j-1}^{k}.$$

Bs3 = 31 shi

$$\begin{split} &-\bar{s}+(s_{j+1}^ku_{j+1}^k-s_{j-1}^ku_{j-1}^k)\frac{\sigma_1\tau}{2h}+(\bar{s}_{j+1}\bar{u}_{j+1}-\bar{s}_{j-1}\bar{u}_{j-1})\frac{(1-\sigma_1)\tau}{2h}\\ &-(a_{j+1}^ks_{j+1}^k-(a_{j+1/2}^k+a_{j-1/2}^k)s_j^k+a_{j-1/2}^ks_{j-1}^k)\frac{\sigma_1\tau}{h^2}-\\ &-(\bar{a}_{j+1/2}\bar{s}_{j+1}-(\bar{a}_{j+1/2}+\bar{a}_{j-1/2})\bar{s}_j+\bar{a}_{j-1/2}\bar{s}_{j-1})\frac{(1-\sigma_1)\tau}{h^2} \ . \end{split}$$

Numerical Calculations And Algorithms

Gisela Engeln-Müllges, Frank Uhlig

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