

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.

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 upon concrete arch.

3. Two different variants of finite-difference schemes provided for better reliability of numerical calculations.

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.

$$\hat{p}_j^k + As_j^3 \hat{\rho}_{j+1}^k + Bs_j^1 \hat{u}_{j-1}^k + Bs_j^2 \hat{u}_j^k + Bs_j^3 \hat{u}_{j+1}^k = -Fs_j$$

$$1_j^k = -\left(\frac{u_{j-1}^k}{2} + \frac{a_{j-1/2}^k}{h}\right) \frac{\sigma_1 \tau}{h} \theta_{j-1}^k,$$

$$2_j^k = (1 + (a_{j+1/2}^k + a_{j-1/2}^k) \frac{\sigma_1 \tau}{h^2}) G$$

$$3_j^k = \left(\frac{u_{j+1}^k}{2} - \frac{a_{j+1/2}^k}{h}\right) \frac{\sigma_1 \tau}{h} \theta_{j+1}^k,$$

$$Bs_j^1 = -\frac{\sigma_1 \tau}{2h} s_{j-1}^k,$$

$$Bs_j^2 = 0,$$

$$Bs_j^3 = \frac{\sigma_1 \tau}{2h} s_{j+1}^k,$$

$$-\bar{s} + (s_{j+1}^k u_{j+1}^k - s_{j-1}^k u_{j-1}^k) \frac{\sigma_1 \tau}{2h} + (\bar{s}_{j+1} \bar{u}_{j+1} - \bar{s}_{j-1} \bar{u}_{j-1}) \frac{(1-\sigma_1)\tau}{2h} -$$

$$-(a_{j+1}^k s_{j+1}^k - (a_{j+1/2}^k + a_{j-1/2}^k) s_j^k + a_{j-1/2}^k s_{j-1}^k) \frac{\sigma_1 \tau}{h^2} -$$

$$-(\bar{a}_{j+1/2} \bar{s}_{j+1} - (\bar{a}_{j+1/2} + \bar{a}_{j-1/2}) \bar{s}_j + \bar{a}_{j-1/2} \bar{s}_{j-1}) \frac{(1-\sigma_1)\tau}{h^2}.$$

Numerical Calculations Algorithms

Ensheng Dong



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Table of Contents Numerical Calculations Algorithms

1. Understanding the eBook Numerical Calculations Algorithms
 - The Rise of Digital Reading Numerical Calculations Algorithms
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerical Calculations Algorithms
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerical Calculations Algorithms
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerical Calculations Algorithms
 - Personalized Recommendations
 - Numerical Calculations Algorithms User Reviews and Ratings
 - Numerical Calculations Algorithms and Bestseller Lists
5. Accessing Numerical Calculations Algorithms Free and Paid eBooks
 - Numerical Calculations Algorithms Public Domain eBooks

- Numerical Calculations Algorithms eBook Subscription Services
- Numerical Calculations Algorithms Budget-Friendly Options
- 6. Navigating Numerical Calculations Algorithms eBook Formats
 - ePub, PDF, MOBI, and More
 - Numerical Calculations Algorithms Compatibility with Devices
 - Numerical Calculations Algorithms Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerical Calculations Algorithms
 - Highlighting and Note-Taking Numerical Calculations Algorithms
 - Interactive Elements Numerical Calculations Algorithms
- 8. Staying Engaged with Numerical Calculations Algorithms
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerical Calculations Algorithms
- 9. Balancing eBooks and Physical Books Numerical Calculations Algorithms
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerical Calculations Algorithms
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Numerical Calculations Algorithms
 - Setting Reading Goals Numerical Calculations Algorithms
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Numerical Calculations Algorithms
 - Fact-Checking eBook Content of Numerical Calculations Algorithms
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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