## 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 Algorithms**

Bruce W. Arden, Kenneth N. Astill

#### **Numerical Calculations Algorithms:**

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Introduction to Numerical Analysis Josef Stoer, R. Bulirsch, 2002-08-21 New edition of a well known classic in the field Previous edition sold over 6000 copies worldwide Fully worked examples Many carefully selected problems **Computation 1** Christoph W. Ueberhuber, 2012-12-06 This book deals with various aspects of scientific numerical computing No at tempt was made to be complete or encyclopedic The successful solution of a numerical problem has many facets and consequently involves different fields of computer science Computer numerics as opposed to computer algebra is thus based on applied mathematics numerical analysis and numerical computation as well as on certain areas of computer science such as computer architecture and operating systems Applied Mathemalies I I I Numerical Analysis Analysis Algebra I I Numerical Computation Symbolic Computation I Operating Systems Computer Hardware Each chapter begins with sample situations taken from specific fields of appli cation Abstract and general formulations of mathematical problems are then presented Following this abstract level a general discussion about principles and methods for the numerical solution of mathematical problems is presented Relevant algorithms are developed and their efficiency and the accuracy of their results is assessed It is then explained as to how they can be obtained in the form of numerical software The reader is presented with various ways of applying the general methods and principles to particular classes of problems and approaches to extracting practically useful solutions with appropriately chosen numerical software are developed Potential difficulties and obstacles are examined and ways of avoiding them are discussed The volume and diversity of all the available numerical software is tremendous Numerical Analysis with Algorithms and Programming Santanu Saha Ray, 2018-09-03 Numerical Analysis with Algorithms and Programming is the first comprehensive textbook to provide detailed coverage of numerical methods their algorithms and corresponding computer programs It presents many techniques for the efficient numerical solution of problems in science and engineering Along with numerous worked out examples end of chapter exercises and Mathematica programs the book includes the standard algorithms for numerical computation Root finding for nonlinear equations Interpolation and approximation of functions by simpler computational building blocks such as polynomials and splines The solution of systems of linear equations and triangularization Approximation of functions and least square approximation Numerical differentiation and divided differences Numerical quadrature and integration Numerical solutions of ordinary differential equations ODEs and boundary value problems Numerical solution of partial differential equations PDEs The text develops students understanding of the construction of numerical algorithms and the applicability of the methods By thoroughly studying the algorithms students will discover how various methods provide accuracy efficiency scalability and stability for large scale systems **Control Perspectives on Numerical Algorithms and Matrix Problems Amit** Bhaya, Eugenius Kaszkurewicz, 2006-03-01 This book organizes the analysis and design of iterative numerical methods from a control perspective A variety of applications are discussed including iterative methods for linear and nonlinear systems of equations neural networks for linear and quadratic programming problems and integration and shooting methods for

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arising from finite difference approximations of elliptic problems For researchers interested in the development and application of fast algorithms for solving elliptic partial differential equations using advanced computer systems

Numerical Algorithms: Origins and Applications Bruce W. Arden, Kenneth N. Astill, 1970 Advanced Numerical Methods with Matlab 1 Bouchaib Radi, Abdelkhalak El Hami, 2018-03-15 Most physical problems can be written in the form of mathematical equations differential integral etc Mathematicians have always sought to find analytical solutions to the equations encountered in the different sciences of the engineer mechanics physics biology etc These equations are sometimes complicated and much effort is required to simplify them In the middle of the 20th century the arrival of the first computers gave birth to new methods of resolution that will be described by numerical methods They allow solving numerically as precisely as possible the equations encountered resulting from the modeling of course and to approach the solution of the problems posed The approximate solution is usually computed on a computer by means of a suitable algorithm The objective of this book is to introduce and study the basic numerical methods and those advanced to be able to do scientific computation The latter refers to the implementation of approaches adapted to the treatment of a scientific problem arising from physics meteorology pollution etc or engineering structural mechanics fluid mechanics signal processing etc

<u>Elementary Numerical Analysis</u> S. D. Conte, Carl De Boor, 2018-02-27 This book provides a thorough and careful introduction to the theory and practice of scientific computing at an elementary yet rigorous level from theory via examples and algorithms to computer programs The original FORTRAN programs have been rewritten in MATLAB and now appear in a new appendix and online offering a modernized version of this classic reference for basic numerical algorithms

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