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Precise numerical methods using C++ : Aberth, Oliver ...

precise numerical methods using c Sep 07, 2020 Posted By Astrid Lindgren Media TEXT ID 733396f3 Online PDF Ebook Epub Library Precise Numerical Methods Using C INTRODUCTION : #1 Precise Numerical Methods ~ Free eBook Precise Numerical Methods Using C ~ Uploaded By Astrid Lindgren, precise numerical methods using c with cdrom oliver aberth isbn 9780120417506

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Yes, the CD contains some source code, but relating that to the discussion is very tedious, annoying, and incomplete. The code is below average to demonstrate the concepts. I don't expect to "lift" the code, as others have suggested; instead, I expect to understand how to implement "Precise Numerical Methods Using C++". As it says on the tin.

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Oliver Aberth received his B.S. from City College of New York, his M.S. from Massachusetts Institute of Technology, and his Ph.D. from the University of Pennsylvania. He is also the author of Computable Analysis (McGraw-Hill, 1980) and Precise Numerical Methods Using C++ (Academic Press, 1998).

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This book explains how precise numerical analysis is constructed with C++. Included is a CD-ROM which contains executable Windows 95 programs for the PC and which demonstrates how these programs can be used to solvetypical problems of elementary numerical analysis with precision. The book also provides exercises which illustrate points from the text and references for the methods presented. . Ordinary differential equation solver demos . Numerical integration demos . Polynomial root finder demos . Complete demo C++text files . Book explains all methods demos use This book is an excellent choice as a text for a course in numerical analysis for advanced undergraduate or graduate students. It is also an invaluable reference for anyone concerned with precise numerical solutions to common engineering problems.

Precise numerical analysis may be defined as the study of computer methods for solving mathematical problems either exactly or to prescribed accuracy. This book explains how precise numerical analysis is constructed. The book also provides exercises which illustrate points from the text and references for the methods presented. - Clearer, simpler descriptions and explanations of the various numerical methods - Two new types of numerical problems; accurately solving partial differential equations with the included software and computing line integrals in the complex plane.

This book constitutes the thoroughly refereed post-proceedings of the Dagstuhl Seminar 03041 on Numerical Software with Result Verification held at Dagstuhl Castle, Germany, in January 2003. The 18 revised full papers presented were selected during two rounds of reviewing and improvements. The papers are organized in topical sections on languages, software systems and tools, new verification techniques based on interval arithmetic, applications in science and engineering, and novel approaches to verification.

The thoroughly refereed post-proceedings of the Second International Conference on Symbolic and Numerical Scientific Computation, SNSC 2001, held in Hagenberg, Austria, in September 2001. The 19 revised full papers presented were carefully selected during two rounds of reviewing and improvement. The papers are organized in topical sections on symbolics and numerics of differential equations, symbolics and numerics in algebra and geometry, and applications in physics and engineering.

A visual, interdisciplinary approach to solving problems in numerical methods Computing for Numerical Methods Using Visual C++ fills the need for a complete, authoritative book on the visual solutions to problems in numerical methods using C++. In an age of boundless research, there is a need for a programming language that can successfully bridge the communication gap between a problem and its computing elements through the use of visual-ization for engineers and members of varying disciplines, such as biologists, medical doctors, mathematicians, economists, and politicians. This book takes an interdisciplinary approach to the subject and demonstrates how solving problems in numerical methods using C++ is dominant and practical for implementation due to its flexible language format, object-oriented methodology, and support for high numerical precisions. In an accessible, easy-to-follow style, the authors cover: Numerical modeling using C++ Fundamental mathematical tools MFC interfaces Curve visualization Systems of linear equations Nonlinear equations Interpolation and approximation Differentiation and integration Eigenvalues and Eigenvectors Ordinary differential equations Partial differential equations This reader-friendly book includes a companion Web site, giving readers free access to all of the codes discussed in the book as well as an equation parser called "MyParser" that can be used to develop various numerical applications on Windows. Computing for Numerical Methods Using Visual C++ serves as an excellent reference for students in upper undergraduate- and graduate-level courses in engineering, science, and mathematics. It is also an ideal resource for practitioners using Microsoft Visual C++.

An introduction to interval analysis for scientists and engineers interested in scientific computation, especially using INTLAB/MATLAB®.

Today, C++ is gaining prominence as a programming language and is emerging as a preferred choice of programmers because of its many attractive features and its user-friendly nature. And this text, intended for undergraduate students of engineering as well as for students of Mathematics, Physics and Chemistry, shows how numerical methods can be applied in solving engineering problems using C++. The text, while emphasizing the application aspects, also provides deep insight into the development of numerical algorithms. KEY FEATURES • Gives detailed step-by-step description of numerical algorithms and demonstrates their implementation. Each method is illustrated with solved examples. • Provides C++ programs on many numerical algorithms. Elementary problems from various branches of science and engineering are solved. • Contains 79 programs written in C++. • Provides about 200 solved examples which illustrate the concepts. • The Exercise problems, with various categories like Quiz, Analytical and Numerical Problems and Software Development Projects, drill the students in self-study. • The accompanying CD-ROM contains all the programs given in the book. Students as well as programmers should find this text immensely useful for its numerous student-friendly features coupled with the elegant exposition of concepts and the clear emphasis on applications.

This textbook provides a comprehensive introduction to the theory and practice of validated numerics, an emerging new field that combines the strengths of scientific computing and pure mathematics. In numerous fields ranging from pharmaceuticals and engineering to weather prediction and robotics, fast and precise computations are essential. Based on the theory of set-valued analysis, a new suite of numerical methods is developed, producing efficient and reliable solvers for numerous problems in nonlinear analysis. Validated numerics yields rigorous computations that can find all possible solutions to a problem while taking into account all

possible sources of error--fast, and with guaranteed accuracy. Validated Numerics offers a self-contained primer on the subject, guiding readers from the basics to more advanced concepts and techniques. This book is an essential resource for those entering this fast-developing field, and it is also the ideal textbook for graduate students and advanced undergraduates needing an accessible introduction to the subject. Validated Numerics features many examples, exercises, and computer labs using MATLAB/C++, as well as detailed appendixes and an extensive bibliography for further reading. Provides a comprehensive, self-contained introduction to validated numerics Requires no advanced mathematics or programming skills Features many examples, exercises, and computer labs Includes code snippets that illustrate implementation Suitable as a textbook for graduate students and advanced undergraduates

This text on numerical computing, presented through the medium of the C++ language, is designed for students of science and engineering who are seriously studying numerical methods for the first time. It should also be of interest to computing scientists who wish to see how C++ can be used in earnest for numerical computation. The mathematical prerequisites are those which an undergraduate student of science or engineering might be expected to possess after the earlier years of study: elementary calculus, linear algebra, and differential equations. In computing, a good knowledge, such as Basic, Fortran, or Pascal, is assumed, while a working knowledge of C would be an advantage. However, no prior knowledge of C++ is assumed. The language is developed in step with its numerical applications. Features of the language not used here are ignored. What remains, however, is a powerful framework for numerical computations and more than enough for an introductory text.

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