Christoph W. Ueberhuber

Numerical Computation 1

Methods, Software, and Analysis

Numerical Computation 1 Vol Xvi Methods Software And Analysis

Raffaela Di Napoli

Numerical Computation 1 Vol Xvi Methods Software And Analysis:

The Mathematical-Function Computation Handbook Nelson H.F. Beebe,2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardw are and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades *High Performance Computing in Science and Engineering '98* Egon Krause,Willi Jäger,2012-12-06 The book contains reports about the most significant projects from science and industry that are using the supercomputers of the Federal High Performance Computing Center Stuttgart HLRS These projects are from different scientific disciplines with a focus on engineering physics and chemistry They were carefully selected in a peer review process and are showcases for an innovative combination of state of the art physical modeling novel algorithms and the use of leading edge parallel computer technology As HLRS is in close cooperation with industrial companies special emphasis has been put on the industrial relevance of results and methods

Spectral Elements for Transport-Dominated Equations Daniele Funaro,1997-04-17 The book deals with the numerical approximation of various PDEs using the spectral element method with particular emphasis for elliptic equations dominated by first order terms It provides a simple introduction to spectral elements with additional new tools upwind grids and preconditioners Applications to fluid dynamics and semiconductor devices are considered as well as in other models were transport diffusion equations arise The aim is to provide the reader with both introductive and more advanced material on spectral Legendre collocation methods The book however does not cover all the aspects of spectral methods Engineers

physicists and applied mathematicians may study how to implement the collocation method and use the results to improve their computational codes **Computational Molecular Dynamics: Challenges, Methods, Ideas** Peter Deuflhard,1999 On May 21 24 1997 the Second International Symposium on Algorithms for Macromolecular Modelling was held at the Konrad Zuse Zentrum in Berlin The event brought together computational scientists in fields like biochemistry biophysics physical chemistry or statistical physics and numerical analysts as well as computer scientists working on the advancement of algorithms for a total of over 120 participants from 19 countries In the course of the symposium the speakers agreed to produce a representative volume that combines survey articles and original papers all refereed to give an impression of the present state of the art of Molecular Dynamics The 29 articles of the book reflect the main topics of the Berlin meeting which were i Conformational Dynamics ii Thermodynamic Modelling iii Advanced Time Stepping Algorithms iv Quantum Classical Simulations and Fast Force Field and v Fast Force Field Evaluation Subject Guide to Books in Print ,1993 *Scientific and Technical Aerospace Reports* ,1982 *International Books in Print* ,1997 Mathematical Reviews ,2001 **Computer Modeling in Engineering & Sciences** ,2009 *Defence Science Journal* ,2004 **Structural Mechanics Software Series** ,1977 **Books in Print Supplement** ,2002 Proceedings of the Statistical Computing Section American Statistical Association. Statistical Computing Section,1983 **SIAM Journal on Scientific Computing** ,2009 *Government Reports Annual Index* ,1992 **Computer Books and Serials in Print** ,1985 *Which Degree Guide* ,2001 **American Book Publishing Record** ,1988 International Aerospace Abstracts ,1999 **Software Engineering** Friedrich Ludwig Bauer,1975

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