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Handbook of Floating-Point Arithmetic

Second Edition

 Birkhäuser

Handbook Of Floating Point Arithmetic Handbook Of Floating Point Arithmetic

**Jean-Michel Muller, Nicolas
Brunie, Florent de Dinechin, Claude-
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Handbook Of Floating Point Arithmetic Handbook Of Floating Point Arithmetic:

Handbook of Floating-Point Arithmetic Jean-Michel Muller, Nicolas Brunie, Florent de Dinechin, Claude-Pierre Jeannerod, Mioara Joldes, Vincent Lefèvre, Guillaume Melquiond, Nathalie Revol, Serge Torres, 2018-05-02 Floating point arithmetic is the most widely used way of implementing real number arithmetic on modern computers However making such an arithmetic reliable and portable yet fast is a very difficult task As a result floating point arithmetic is far from being exploited to its full potential This handbook aims to provide a complete overview of modern floating point arithmetic So that the techniques presented can be put directly into practice in actual coding or design they are illustrated whenever possible by a corresponding program The handbook is designed for programmers of numerical applications compiler designers programmers of floating point algorithms designers of arithmetic operators and more generally students and researchers in numerical analysis who wish to better understand a tool used in their daily work and research *Handbook of Floating-point Arithmetic*, 2010

Handbook of Floating-Point Arithmetic Jean-Michel Muller, Nicolas Brisebarre, Florent de Dinechin, Claude-Pierre Jeannerod, Vincent Lefèvre, Guillaume Melquiond, Nathalie Revol, Damien Stehlé, Serge Torres, 2009-11-11 Floating point arithmetic is the most widely used way of implementing real number arithmetic on modern computers However making such an arithmetic reliable and portable yet fast is a very difficult task As a result floating point arithmetic is far from being exploited to its full potential This handbook aims to provide a complete overview of modern floating point arithmetic So that the techniques presented can be put directly into practice in actual coding or design they are illustrated whenever possible by a corresponding program The handbook is designed for programmers of numerical applications compiler designers programmers of floating point algorithms designers of arithmetic operators and more generally students and researchers in numerical analysis who wish to better understand a tool used in their daily work and research [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

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information and software engineering The book should help scientists to better understand how they use computers in their work and to better understand how computers work It is meant to compensate a bit for the general lack of any formal training in computer science and information theory Readers will learn something they can use throughout their careers

Computer Algebra Handbook Johannes Grabmeier, Erich Kaltofen, Volker Weispfenning, 2012-12-06 Two ideas lie gleaming on the jeweler's velvet The first is the calculus the second the algorithm The calculus and the rich body of mathematical analysis to which it gave rise made modern science possible but it has been the algorithm that has made possible the modern world David Berlinski *The Advent of the Algorithm* First there was the concept of integers then there were symbols for integers I II III 1 1 1 1 f t t t what might be called a sticks and stones representation I II III IV V Roman numerals 1 2 3 4 5 Arabic numerals etc Then there were other concepts with symbols for them and algorithms sometimes for manipulating the new symbols Then came collections of mathematical knowledge tables of mathematical computations theorems of general results Soon after algorithms came devices that provided assistance for carrying out computations Then mathematical knowledge was organized and structured into several related concepts and symbols logic algebra analysis topology algebraic geometry number theory combinatorics etc This organization and abstraction lead to new algorithms and new fields like universal algebra But always our symbol systems reflected and influenced our thinking our concepts and our algorithms

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Elementary Functions Jean-Michel Muller, 2016-11-16 This textbook presents the concepts and tools necessary to understand build and implement algorithms for computing elementary functions e g logarithms exponentials and the trigonometric functions Both hardware and software oriented

algorithms are included along with issues related to accurate floating point implementation This third edition has been updated and expanded to incorporate the most recent advances in the field new elementary function algorithms and function software After a preliminary chapter that briefly introduces some fundamental concepts of computer arithmetic such as floating point arithmetic and redundant number systems the text is divided into three main parts Part I considers the computation of elementary functions using algorithms based on polynomial or rational approximations and using table based methods the final chapter in this section deals with basic principles of multiple precision arithmetic Part II is devoted to a presentation of shift and add algorithms hardware oriented algorithms that use additions and shifts only Issues related to accuracy including range reduction preservation of monotonicity and correct rounding as well as some examples of implementation are explored in Part III Numerous examples of command lines and full programs are provided throughout for various software packages including Maple Sollya and Gappa New to this edition are an in depth overview of the IEEE 754 2008 standard for floating point arithmetic a section on using double and triple word numbers a presentation of new tools for designing accurate function software and a section on the Toom Cook family of multiplication algorithms The techniques presented in this book will be of interest to implementers of elementary function libraries or circuits and programmers of numerical applications Additionally graduate and advanced undergraduate students professionals and researchers in scientific computing numerical analysis software engineering and computer engineering will find this a useful reference and resource PRAISE FOR PREVIOUS EDITIONS T his book seems like an essential reference for the experts which I m not More importantly this is an interesting book for the curious which I am In this case you ll probably learn many interesting things from this book If you teach numerical analysis or approximation theory then this book will give you some good examples to discuss in class MAA Reviews Review of Second Edition The rich content of ideas sketched or presented in some detail in this book is supplemented by a list of over three hundred references most of them of 1980 or more recent The book also contains some relevant typical programs Zentralblatt MATH Review of Second Edition I think that the book will be very valuable to students both in numerical analysis and in computer science I found it to be well written and containing much interesting material most of the time disseminated in specialized papers published in specialized journals difficult to find Numerical Algorithms Review of First Edition **Handbook of Discrete and Combinatorial Mathematics** Kenneth H.

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Scott,2011-04-18 Computational science is fundamentally changing how technological questions are addressed The design of aircraft automobiles and even racing sailboats is now done by computational simulation The mathematical foundation of this new approach is numerical analysis which studies algorithms for computing expressions defined with real numbers Emphasizing the theory behind the computation this book provides a rigorous and self contained introduction to numerical analysis and presents the advanced mathematics that underpin industrial software including complete details that are missing from most textbooks Using an inquiry based learning approach Numerical Analysis is written in a narrative style provides historical background and includes many of the proofs and technical details in exercises Students will be able to go beyond an elementary understanding of numerical simulation and develop deep insights into the foundations of the subject They will no longer have to accept the mathematical gaps that exist in current textbooks For example both necessary and sufficient conditions for convergence of basic iterative methods are covered and proofs are given in full generality not just based on special cases The book is accessible to undergraduate mathematics majors as well as computational scientists wanting to learn the foundations of the subject Presents the mathematical foundations of numerical analysis Explains the mathematical details behind simulation software Introduces many advanced concepts in modern analysis Self contained and mathematically rigorous Contains problems and solutions in each chapter Excellent follow up course to Principles of Mathematical Analysis by Rudin

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Handbook of Computational Geometry J.R. Sack,J. Urrutia,1999-12-13 Computational Geometry is an area that provides solutions to geometric problems which arise in applications including Geographic Information Systems Robotics and Computer Graphics This Handbook provides an overview of key concepts and results in Computational Geometry It may serve as a reference and study guide to the field Not only the most advanced methods or solutions are described but also many alternate ways of looking at problems and how to solve them

Handbook of Parallel Computing Sanguthevar Rajasekaran,John Reif,2007-12-20 The ability of parallel computing to process large data sets and handle time consuming operations has resulted in unprecedented advances in biological and scientific computing modeling and simulations Exploring these recent developments the Handbook of Parallel Computing Models Algorithms and Applications provides comprehensive coverage on a

Handbook of Computer Architecture Anupam Chattopadhyay,2024-12-20 This handbook presents the key topics in the area of computer architecture covering from the basic to the most advanced topics including software and hardware design methodologies It will provide readers with the most comprehensive updated reference information covering applications in single core processors multicore processors application specific processors reconfigurable architectures emerging computing architectures

processor design and programming flows test and verification This information benefits the readers as a full and quick technical reference with a high level review of computer architecture technology detailed technical descriptions and the latest practical applications

Cocoa Programming Developer's Handbook David Chisnall,2009-12-29 The Cocoa programming environment Apple s powerful set of clean object oriented APIs is increasingly becoming the basis of almost all contemporary Mac OS X development With its long history of constant refinement and improvement Cocoa has matured into a sophisticated programming environment that can make Mac OS X application development quick efficient and even fun Yet for all its refined elegance and ease of use the staggering size of the Cocoa family of APIs and the vast magnitude of the official documentation can be intimidating to even seasoned programmers To help Mac OS X developers sort through and begin to put to practical use Cocoa s vast array of tools and technologies Cocoa Programming Developer s Handbook provides a guided tour of the Cocoa APIs found on Mac OS X thoroughly discussing and showing in action Cocoa s core frameworks and other vital components as well as calling attention to some of the more interesting but often overlooked parts of the APIs and tools This book provides expert insight into a wide range of key topics from user interface design to network programming and performance tuning

Handbook of Discrete and Computational Geometry Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography

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