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Handbook of Floating-Point Arithmetic

Second Edition

 Birkhäuser

Handbook Of Floating Point Arithmetic Handbook Of Floating Point Arithmetic

J.R. Sack, J. Urrutia



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**

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Numerical Analysis Larkin Ridgway 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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Computation in Science Konrad Hinsien, 2015-12-01 This book provides a theoretical background in computation to scientists who use computational methods It explains how computing is used in the natural sciences and provides a high level overview of those aspects of computer science and software engineering that are most relevant for computational science The focus is on concepts results and applications rather than on proofs and derivations The unique feature of this book is that it connects the dots between computational science the theory of computation and 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

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

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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 1111 fttt 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 *The Princeton Companion to Applied Mathematics* Nicholas J. Higham, Mark R. Dennis, Paul Glendinning, Paul A. Martin, Fadil Santosa, Jared

Tanner, 2015-09-15 The must have compendium on applied mathematics This is the most authoritative and accessible single volume reference book on applied mathematics Featuring numerous entries by leading experts and organized thematically it introduces readers to applied mathematics and its uses explains key concepts describes important equations laws and functions looks at exciting areas of research covers modeling and simulation explores areas of application and more Modeled on the popular Princeton Companion to Mathematics this volume is an indispensable resource for undergraduate and graduate students researchers and practitioners in other disciplines seeking a user friendly reference book on applied mathematics Features nearly 200 entries organized thematically and written by an international team of distinguished contributors Presents the major ideas and branches of applied mathematics in a clear and accessible way Explains important mathematical concepts methods equations and applications Introduces the language of applied mathematics and the goals of

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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 *Programming with Mathematica®* Paul Wellin,2013-01-10 Starting from first principles this book covers all of the foundational material needed to develop a clear understanding of the Mathematica language with a practical emphasis on solving problems Concrete

examples throughout the text demonstrate how Mathematica can be used to solve problems in science engineering economics finance computational linguistics geoscience bioinformatics and a range of other fields The book will appeal to students researchers and programmers wishing to further their understanding of Mathematica Designed to suit users of any ability it assumes no formal knowledge of programming so it is ideal for self study Over 290 exercises are provided to challenge the reader's understanding of the material covered and these provide ample opportunity to practice using the language Mathematica notebooks containing examples programs and solutions to exercises are available from www.cambridge.org/wellin

The CUDA Handbook Nicholas Wilt, 2013 The CUDA Handbook begins where CUDA by Example leaves off discussing both CUDA hardware and software in detail that will engage any CUDA developer from the casual to the most hardcore Newer CUDA developers will see how the hardware processes commands and the driver checks progress hardcore CUDA developers will appreciate topics such as the driver API context migration and how best to structure CPU GPU data interchange and synchronization The book is partly a reference resource and partly a cookbook

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

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