

# COMPUTER-HARDWARE EVALUATION OF MATHEMATICAL FUNCTIONS

Amos Omondi

Imperial College Press

# Online Book Computer Hardware Evaluation Mathematical Functions Omondi

**L Reisser**



## **Online Book Computer Hardware Evaluation Mathematical Functions Omondi:**

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*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 hardware 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

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work The methods are divided into four core themes CORDIC normalization table look up and polynomial approximations In each case the author carefully considers the mathematical derivation and basis of the relevant methods how effective they are including mathematical errors analysis and how they can be implemented in hardware This book is an excellent resource for any student or researcher seeking a comprehensive yet easily understandable explanation of how computer chips evaluate mathematical functions

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

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Numerical Algorithms

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