

COMPUTER-HARDWARE EVALUATION OF MATHEMATICAL FUNCTIONS

Amos Omondi



Online Computer Hardware Evaluation Mathematical Functions Omondi

Charles Theodore Fike



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Computer-hardware Evaluation Of Mathematical Functions Amos R Omondi, 2015-10-22 Computer Hardware Evaluation of Mathematical Functions provides a thorough up to date understanding of the methods used in computer hardware for the evaluation of mathematical functions reciprocals square roots exponentials logarithms trigonometric functions hyperbolic functions etc It discusses how the methods are derived how they work and how well they 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

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Current Problems of Applied Mathematics and Computer Systems Irina Samoylenko, Anatoly Alikhanov, Dmitrii Kaplun, Pavel Lyakhov, Aslan Apekov, 2025-11-18 This book based on the best papers accepted for presentation during the International Conference on Current Problems of Applied Mathematics and Computer Systems CPAMCS 2024 Russia This book includes research focused on contemporary mathematical challenges and their resolutions within scientific computing data analysis and modular computing This book presents original studies on numerical methods in scientific computing optimization problem solving function approximation techniques among other topics Furthermore it encompasses research contributions in data analysis and modular computing highlighting advancements in deep learning neural networks mathematical statistics machine learning techniques residue number systems and artificial intelligence Additionally this book addresses critical issues in mathematical education This book intends for professionals engaged in scientific computing parallel computing computer technology machine learning information security and mathematics education

Proceedings of International Conference on Communication and Computational Technologies Sandeep Kumar, Saroj Hiranwal, Ritu Garg, S. D. Purohit, 2024-12-04 This book gathers selected papers presented at 6th International Conference on Communication and Computational Technologies ICCCT 2024 jointly

organized by Soft Computing Research Society SCRS and Rajasthan Institute of Engineering Technology RIET Jaipur during January 8-9, 2024. The book is a collection of state-of-the-art research work in the cutting-edge technologies related to the communication and intelligent systems. The topics covered are algorithms and applications of intelligent systems, informatics and applications, and communication and control systems. Computer evaluation of mathematical functions Charles Theodore Fike, 1968

Computer Evaluation of Mathematical Functions C. T. Fike, 1970

Computer Performance Evaluation: Modelling Techniques and Tools Tony Field, Peter G. Harrison, Jeremy Bradley, Uli Harder, 2003-08-01

This book constitutes the refereed proceedings of the 12th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation TOOLS 2002 held in London, UK, in April 2002. The 18 revised full papers and six tool papers presented together with an invited contribution were carefully reviewed and selected from 57 submissions. Among the topics addressed are generic techniques like stochastic process algebras and the analysis of Petri nets and Markov chains as well as the development and employment of tools in areas such as the Internet software performance engineering, parallel systems, real-time systems, and transaction processing.

Computer Performance Evaluation Anthony J. Field, 2002-04-03

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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 **Eva-CBTM** Martin Stein,2015 *Lectures on the Measurement and Evaluation of the Performance of Computing Systems* Saul Rosen,1976-01-01 The scope of the discussion is limited to certain types of general purpose computing systems whose characteristics involve multiprogramming multiprocessors communication lines serving many users and on line terminal systems The goal is to gain a better understanding of computing systems through the techniques of measurement and performance evaluation *Computer Hardware Evaluation* ,1984

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