

# COMPUTER-HARDWARE EVALUATION OF MATHEMATICAL FUNCTIONS

Amos Omondi

Imperial College Press

# Computer Hardware Evaluation Mathematical Functions Omondi

**Anthony J. Field**



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

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**Cryptography Arithmetic** Amos R. Omondi, 2020-01-30 Modern cryptosystems used in numerous applications that require secrecy or privacy electronic mail financial transactions medical record keeping government affairs social media etc are based on sophisticated mathematics and algorithms that in implementation involve much computer arithmetic And for speed it is necessary that the arithmetic be realized at the hardware chip level This book is an introduction to the implementation of cryptosystems at that level The aforementioned arithmetic is mostly the arithmetic of finite fields and the book is essentially one on the arithmetic of prime fields and binary fields in the context of cryptography The book has three main parts The first part is on generic algorithms and hardware architectures for the basic arithmetic operations addition subtraction multiplication and division The second part is on the arithmetic of prime fields And the third part is on the arithmetic of binary fields The mathematical fundamentals necessary for the latter two parts are included as are descriptions of various types of cryptosystems to provide appropriate context This book is intended for advanced level students in Computer Science Computer Engineering and Electrical and Electronic Engineering Practitioners too will find it useful as will those with a general interest in hard applications of mathematics

**Application-Specific Arithmetic** Florent de Dinechin, Martin Kumm, 2024-03-12 Written by two experts of the domain this book presents the most

recent advances in computer arithmetic hardware with a focus on application specific arithmetic beyond the classic operators and the standard precisions It targets silicon designers who have to do better with less in the post Moore era and FPGA developers who want to exploit the full possibilities of reconfigurable computing platforms      **Computer Arithmetic Systems** Amos R. Omondi,1994 Aimed at digital designers computer hardware designers and computer architects this title deals with algorithms and hardware for operations in conventional fixed point number systems algorithms and hardware for operations in floating point number systems and unconventional number systems      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 C. T. Fike,1970      **Computer evaluation of mathematical functions** Charles Theodore Fike,1968      *Computer Performance Evaluation* Anthony J. Field,2002-04-03 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

Embark on a transformative journey with is captivating work, **Computer Hardware Evaluation Mathematical Functions Omondi** . This enlightening ebook, available for download in a convenient PDF format PDF Size: , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

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