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Computer Arithmetic Algorithms

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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

Arithmetic and Logic in Computer Systems Mi Lu,2005-02-18 Arithmetic and Logic in Computer Systems provides a useful guide to a fundamental subject of computer science and engineering Algorithms for performing operations like addition subtraction multiplication and division in digital computer systems are presented with the goal of explaining the concepts behind the algorithms rather than addressing any direct applications Alternative methods are examined and explanations are supplied of the fundamental materials and reasoning behind theories and examples No other current books deal with this subject and the author is a leading authority in the field of computer arithmetic The text introduces the Conventional Radix Number System and the Signed Digit Number System as well as Residue Number System and Logarithmic Number System This book serves as an essential up to date guide for students of electrical engineering and computer and mathematical sciences as well as practicing engineers and computer scientists involved in the design application and development of computer arithmetic units   Computer Arithmetic Mircea Vlăduţiu,2012-09-13 The subject of this book is the analysis and design of digital devices that implement computer arithmetic The book s presentation of high level detail descriptions formalisms and design principles means that it can support many research activities in this field with an emphasis on bridging the gap between algorithm optimization and hardware implementation The author provides a unified view linking the domains of digital design and arithmetic algorithms based on original formalisms and hardware description languages A feature of the book is the large number of examples and the implementation details provided While the author does not avoid high level details providing for example gate level designs for all matrix combinational arithmetic structures The book is suitable for researchers and students engaged with hardware design in computer science and engineering A feature of the book is the large number of examples and the implementation details provided While the author does not avoid high level details providing for example gate level designs for all matrix combinational arithmetic structures The book is suitable for researchers and students engaged with hardware design in computer science and engineering

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computer arithmetic its implementation on digital computers and applications in applied mathematics to compute highly accurate and mathematically verified results The aim is to improve the accuracy of numerical computing by implementing advanced computer arithmetic and to control the quality of the computed results validity The book can be useful as high level undergraduate textbook but also as reference work for scientists researching computer arithmetic and applied mathematics

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