

Vedic Multiplier Verilog

2016 International Conference on Computing, Communication and Automation (ICCCA)
 Advanced Digital System Design
 Design and Development of Efficient Energy Systems
 2020 International Conference on Electronics and Sustainable Communication Systems (ICESC)
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 Low Power VLSI Design
 Smart Computing and Informatics
 Deep Sciences for Computing and Communications
 Advances in Automation, Signal Processing, Instrumentation, and Control
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 Design, Synthesis and Simulation of a 64-bit Fast Multiplier Using Verilog HDL
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 Computer-Aided Developments: Electronics and Communication

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MICHAEL GAIGE

2016 International Conference on Computing, Communication and Automation (ICCCA) Springer Nature

Globalization today pervades almost every facet of human life thanks to the emergence of new technologies in computing and communications. At the same time, automation with its strong focus on providing fast and ready access for human, based on these developments in computing and communications plays a very crucial role in people's lives and permeates all of it in all respects, from entertainment to healthcare and from database to e-governance. The scope of International Conference (ICCCA 2016) is to provide a forum for exchange of ideas among interested practitioners in the areas of computing, communications and automation from fundamental research to emerging applications, while emphasizing society-shaping technologies in the modern IT era. It will provide an excellent opportunity for the researchers to expose their work to international scrutiny and to open up the scope for new research collaborations among the international community of participants and invited delegates.

Advanced Digital System Design Springer Nature

The book is a collection of peer-reviewed best selected research papers presented at the International Conference on Data Intelligence and Cognitive Informatics (ICDICI 2021), organized by SCAD College of Engineering and Technology, Tirunelveli, India, during July 16-17, 2021. This book discusses

new cognitive informatics tools, algorithms, and methods that mimic the mechanisms of the human brain which leads to an impending revolution in understating a large amount of data generated by various smart applications. The book includes novel work in data intelligence domain which combines with the increasing efforts of artificial intelligence, machine learning, deep learning, and cognitive science to study and develop a deeper understanding of the information processing systems.

Design and Development of Efficient Energy Systems Springer

Vertically and Crosswise is an advanced book of sixteen chapters on one Vedic Mathematics sutra. Primarily it deals with the solution of equations, ranging from elementary examples of the sutra to non-linear partial differential equations. Other topics include the inversion of matrices, curve-fitting, and methods of obtaining series expansions of common functions of one and of two independent variables.

2020 International Conference on Electronics and Sustainable Communication Systems (ICESC) Springer Nature

The volume comprises of papers presented at the first CADEC-2019 conference held at Vellore Institute of Technology-Andhra Pradesh, Amaravati, India. The book contains computer simulated results in various areas of electronics and communication engineering such as, VLSI and embedded systems, wireless communication, signal processing, power electronics and control theory applications. This volume will help researchers and engineers to develop and extend their ideas in upcoming research in electronics and communication.

THE ELLIPTIC CURVES VEDIC MATHEMATICS & CRYPTOGRAPHY Springer

Now-a-days an interest in the Vedic system is growing well in technology next to education. Developing a effective algorithm for VLSI from Vedic Mathematical Sutras(Formulae) in calculus, computing, square, Cube etc. Sri Bharati Krsna Tirthaji (1884-1960) has given the complete mathematical calculations in a easiest way ever. But the real beauty of Vedic Mathematics cannot be fully appreciated without used it in a technology Properly. One can then see that it is perhaps the most refined and efficient mathematical system which implemented in the digital signal application. This initiative work should be extended up-to a practical application. Constructive criticisms and suggestions from researchers and student scholars regarding this book are welcome. -B.Divya

Low Power VLSI Design CRC Press

This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fifth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2021), held in Ahmedabad, India. The book is divided into two volumes. It discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

Smart Computing and Informatics Springer Nature

This book covers all the emerging trends in artificial intelligence (AI) and the Internet of Things (IoT). The Internet of Things is a term that has been introduced in recent years to define devices that are able to connect and transfer data to other devices via the Internet. While IoT and sensors have the ability to harness large volumes of data, AI can learn patterns in the data and quickly extract insights in order to automate tasks for a variety of business benefits. Machine learning, an AI technology, brings the ability to automatically identify patterns and detect anomalies in the data that smart sensors and devices generate, and it can have significant advantages over traditional business intelligence tools for analyzing IoT data, including being able to make operational predictions up to 20 times earlier and with greater accuracy than threshold-based monitoring systems. Further, other AI technologies, such as speech recognition and computer vision can help extract insights from data that used to require human review. The powerful combination of AI and IoT technology is helping to avoid unplanned downtime, increase operating efficiency, enable new products and services, and enhance risk management.

Deep Sciences for Computing and Communications Springer Nature

This book contains 74 papers presented at ICTCS 2017: Third International Conference on Information and Communication Technology for Competitive Strategies. The conference was held during 16-17 December 2017, Udaipur, India and organized by Association of Computing Machinery, Udaipur Professional Chapter in association with The Institution of Engineers (India), Udaipur Local Center and Global Knowledge Research Foundation. This book contains papers mainly focused on ICT for Computation, Algorithms and Data Analytics and IT Security etc.

Advances in Automation, Signal Processing, Instrumentation, and Control Motilal Banarsidass Publ.

The book is designed to serve as a textbook for courses offered to undergraduate and graduate students enrolled in electrical, electronics, and communication engineering. The objective of this book is to help the readers to understand the concepts of digital system design as well as to motivate the students to pursue research in this field. Verilog Hardware Description Language (HDL) is preferred in this book to realize digital architectures. Concepts of Verilog HDL are discussed in a separate chapter and many Verilog codes are given in this book for better understanding. Concepts of system Verilog to realize digital hardware are also discussed in a separate chapter. The book covers basic topics of digital logic design like binary number systems, combinational circuit design, sequential circuit design, and finite state machine (FSM) design. The book also covers some advanced topics on digital arithmetic like design of high-speed adders, multipliers, dividers, square root circuits, and CORDIC block. The readers can learn about FPGA and ASIC implementation steps and issues that arise at the time of implementation. One chapter of the book is dedicated to study the low-power design techniques and another to discuss the concepts of static time analysis (STA) of a digital system. Design and implementation of many digital systems are discussed in detail in a separate chapter. In the last chapter, basics of some advanced FPGA design techniques like partial re-configuration and system on chip (SoC) implementation are discussed. These designs can help the readers to design their architecture. This book can be very helpful to both undergraduate and postgraduate students and researchers.

Advanced Computing and Intelligent Engineering Anchor Academic Publishing

This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields.

Proceedings of the Third International Conference on Computational Intelligence and Informatics Springer Nature

This book presents select peer-reviewed proceedings of the International Conference on Advances in VLSI and Embedded Systems (AVES 2019) held at SVNIT, Surat, Gujarat, India. The book covers cutting-edge original research in VLSI design, devices and emerging technologies, embedded systems, and CAD for VLSI. With an aim to address the demand for complex and high-functionality systems as well as portable consumer electronics, the contents focus on basic concepts of circuit and systems design, fabrication, testing, and standardization. This book can be useful for students, researchers as well as industry professionals interested in emerging trends in VLSI and embedded systems.

ICCCE 2021 Springer

International conference on Electronics and Sustainable Communication Systems (ICESC 2020) is one of the eminent conferences organized by Hindustan Institute of Technology, Coimbatore, India dedicated to drive innovation in nearly every aspect of electronic and communication systems. The primary aim of ICESC 2020 is to promote the high quality and sustainable research works in an international platform of scientists, researchers, and industrialists by bringing together the state of the art research work in different facets of electronics and communication systems and discuss, share and exchange the research ideas under one common platform. Prospective authors are invited to contribute and address different themes and topics of the conference.

Single Precision Floating Point Multiplier Springer Nature

There is not a single industry which will not be transformed by machine learning and Internet of Things (IoT). IoT and machine learning have altogether changed the technological scenario by letting the user monitor and control things based on the prediction made by machine learning algorithms. There has been substantial progress in the usage of platforms, technologies and applications that are based on these technologies. These breakthrough technologies affect not just the software perspective of the industry, but they cut across areas like smart cities, smart healthcare, smart retail, smart monitoring, control, and others. Because of these “game changers,” governments, along with top companies around the world, are investing heavily in its research and development. Keeping pace with the latest trends, endless research, and new developments is paramount to innovate systems that are not only user-friendly but also speak to the growing needs and demands of society. This volume is focused on saving energy at different levels of design and automation including the concept of machine learning automation and prediction modeling. It also deals with the design and analysis for IoT-enabled systems including energy saving aspects at different level of operation. The editors and contributors also cover the fundamental concepts of IoT and machine learning, including the latest research, technological developments, and practical applications. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in the area of IoT and machine technology, this is a must-have for any library.

Vertically and Crosswise IJAICT India Publications

This book comprises select proceedings of the International Conference on Advances in Electrical and Computer Technologies 2020 (ICAECT 2020).

The papers presented in this book are peer-reviewed and cover latest research in electrical, electronics, communication and computer engineering. Topics covered include smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geo informative systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broad band communication, mobile and optical communication, network security, VLSI, embedded systems, optical networks and wireless communication. The volume can be useful for students and researchers working in the different overlapping areas of electrical, electronics and communication engineering.

System and Architecture Springer Nature

This book comprises the select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volumes cover diverse topics ranging from parallel processing to system buses, and from computer architecture to VLIW (very long instruction word). This book focuses on systems and architecture. It aims at informing the readers about those attributes of a system visible to a programmer. This book also deals with various innovations and improvements in computing technologies to improve the size, capacity and performance of modern-day computing systems. The contents of this book will be useful to professionals and researchers alike.

Cognitive Radio Springer

This book gathers high-quality research papers presented at the 3rd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2018). It includes sections describing technical advances and the latest research in the fields of computing and intelligent engineering.

Intended for graduate students and researchers working in the disciplines of computer science and engineering, the proceedings will also appeal to researchers in the field of electronics, as they cover hardware technologies and future communication technologies.

Micro-Electronics and Telecommunication Engineering Springer Nature

Cryptography and Vedic Mathematics are one of the fundamental branches of Mathematics and this book aims to serve as a reference book for the researchers. It can also be read with great interest by students of engineering. The material of the book has been arranged into sections spread out over seven chapters. Each chapter begins with a brief introduction which provides motivation and a keen desire to proceed with the material of the chapter. Several examples have been given for ready reference for solving problems in Cryptography and Vedic Mathematics. Remarks and notes at places and exercises have been given at the end of each section to increase the knowledge by applying previous results. The exercises have also been graded appropriately and followed by answers. Our sincere thanks are also due to the Publishers for undertaking the publication of the manuscript and bringing it timely in the market for the use of readers.

Advances in Computing, Communication, Automation and Biomedical Technology Springer Nature

This book teaches basic and advanced concepts, new methodologies and recent developments in VLSI technology with a focus on low power design. It provides insight on how to use Tanner Spice, Cadence tools, Xilinx tools, VHDL programming and Synopsis to design simple and complex circuits using latest state-of-the art technologies. Emphasis is placed on fundamental transistor circuit-level design concepts.

Information and Communication Technology for Competitive Strategies CRC Press

This book features high-quality papers presented at the International Conference on Computational Intelligence and Informatics (ICCI 2018), which was held on 28-29 December 2018 at the Department of Computer Science and Engineering, JNTUH College of Engineering, Hyderabad, India. The papers focus on topics such as data mining, wireless sensor networks, parallel computing, image processing, network security, MANETS, natural language processing and Internet of things.

Proceedings of the 2nd International Conference on Emerging Technologies and Intelligent Systems Springer Nature

This is an open access book. The 2nd International Conference on Emerging Trends in Engineering (ICETE 2023) will be held in-person from April 28-30, 2023 at University College of Engineering, Osmania University, Hyderabad, India. Since its inception in 2019, The International Conference on Emerging Trends in Engineering (ICETE) has established to enhance the information exchange of theoretical research and practical advancements at national and international levels in the fields of Bio-Medical, Civil, Computer Science, Electrical, Electronics & Communication Engineering, Mechanical and Mining Engineering. This encourages and promotes professional interaction among students, scholars, researchers, educators, professionals from industries and other groups to share latest findings in their respective fields towards sustainable developments. ICETE 2023 promises to be an

exciting and innovative event with keynote and invited talks, oral and poster presentations. We invite you to submit your latest research work to ICETE 2023 and look forward to welcoming you in-person to University College of Engineering, Osmania University, Hyderabad, India. We are closely

monitoring the COVID-19 situation. We will be taking all necessary precautions and adhere to the COVID-19 guidelines issued by the Government of Telangana & Osmania University, India.