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This two-volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving, SocProS 2018. This conference was a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), and Vellore Institute of Technology (India), and brought together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers on algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that are difficult to solve using traditional methods. Key Topics in Nuclear Structure is the eighth in a well established series of conferences and is devoted to the discussion of significant topics in nuclear structure. Both experimental and theoretical issues at the forefront of current research on the subject are covered by leading physicists. In particular, on the experimental side the state of the art and the envisaged developments in the most important laboratories, where rare isotope beams are available, are reviewed in detail. On the theoretical side, the various approaches to a fundamental theory of nuclear structure starting from the nucleon–nucleon interaction are discussed, ranging from the few-body systems, where ab initio

calculations are possible, to the complex nuclei, where the shell model plays a key role. The proceedings have been selected for coverage in: • Index to Scientific & Technical Proceedings® (ISTP® / ISI Proceedings) • Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings) • CC Proceedings — Engineering & Physical Sciences Contents:Radioactive Beams at TRIUMF (A C Shotter)Experiments with Radioactive Ion Beams at ATLAS — Present Status and Future Plans (K E Rehm)Prospects with Rare Isotope Beams at the International Facility for Antiprotons and Ion Research (FAIR) (T Aumann)The SPIRAL 2 Project at GANIL (D Goutte)The Evolution of Structure in Exotic Nuclei (R F Casten)Studies of Phase-Shift Equivalent Low-Momentum Nucleon–Nucleon Potentials (T T S Kuo & J D Holt)The Ab Initio Large-Basis No-Core Shell Model (B R Barrett et al.)Nuclear Structure Calculations with Modern Nucleon–Nucleon Potentials (A Covello et al.)Quantum Phase Transitions in Nuclei (F Iachello)Recent Results from Spectroscopic Studies of Exotic Heavy Nuclei at JYFL (R Julin)The Physics of Protein Folding and of Drug Design (R A Broglia & G Tiana)and other papers Readership: Nuclear physicists, graduate students, researchers and lecturers. Keywords:Nuclear Structure;Radioactive Ion Beams;Nuclear Forces;Shell Model Everything you always wanted to know about the technology of EVs in one volume: motors, batteries, controllers, heating, air conditioning, 12 volt systems, plus some topics that aren't discussed widely even in specialised books; such as the management of long strings of individual cells. For the faint-hearted there are also refreshingly simple explanations of the electro-magnetic and mechanical principles needed to understand how motors and batteries work. One chapter is devoted to alternative technologies such as compressed air drive, hybrids and flywheel energy storage. A final chapter makes the economic and social case for EVs and gleefully demolishes a number of myths about the problems of electric drive. The book is profusely illustrated with over 200 photos, line drawings and other illustrations Our e-book will show you how to get the best software to rip, edit, normalise, convert, verify, play, organize and backup your audio files. We will let you know about the best software programs, where to download them and what they do for you to accomplish each step. This book shows that digitally assisted analog to digital converters are not the only way to cope with poor analog performance caused by technology scaling. It describes various analog design techniques that enhance the area and power efficiency without employing any type of digital calibration circuitry. These techniques consist of self-biasing for PVT enhancement, inverter-based design for improved speed/power ratio, gain-of-two obtained by voltage sum instead of charge redistribution, and current-mode reference shifting instead of voltage reference shifting. Together, these techniques allow enhancing the area and power efficiency of the main building blocks of a multiplying digital-to-analog converter (MDAC) based stage, namely, the flash quantizer, the amplifier, and the switched capacitor network of the MDAC. Complementing the theoretical analyses of the various techniques, a power efficient operational transconductance amplifier is implemented and experimentally characterized. Furthermore, a medium-low resolution reference-free high-speed time-interleaved pipeline ADC employing all mentioned design techniques and circuits is presented, implemented and experimentally characterized. This ADC is said to be reference-free because it precludes any reference voltage, therefore saving power and area, as reference circuits are not necessary. Experimental results demonstrate the potential of the techniques which enabled the implementation of area and power efficient circuits. Resource added for the Automotive Technology program 106023. Go-to guide for using Microsoft's updated Hyper-V as a virtualization solution Windows Server 2012 Hyper-V offers greater scalability, new components, and more options than ever before for large enterprise systems and small/medium businesses. Windows Server 2012 Hyper-V Installation and Configuration Guide is the place to start learning about this new cloud operating system. You'll get up to speed on the architecture, basic deployment and upgrading, creating virtual workloads, designing and implementing advanced network architectures, creating multitenant clouds, backup, disaster recovery, and more. The international team of expert authors offers deep technical detail, as well as hands-on exercises and plenty of real-world scenarios, so you thoroughly understand all features and how best to use them.

Explains how to deploy, use, manage, and maintain the Windows Server 2012 Hyper-V virtualization solutions in large enterprises and small- to medium-businesses Provides deep technical detail and plenty of exercises showing you how to work with Hyper-V in real-world settings Shows you how to quickly configure Hyper-V from the GUI and use PowerShell to script and automate common tasks Covers deploying Hyper-V hosts, managing virtual machines, network fabrics, cloud computing, and using file servers Also explores virtual SAN storage, creating guest clusters, backup and disaster recovery, using Hyper-V for Virtual Desktop Infrastructure (VDI), and other topics Help make your Hyper-V virtualization solution a success with Windows Server 2012 Hyper-V Installation and Configuration Guide.

INTRODUCTION 1.1 GENERAL

Matrix Converters (MC) are essentially 4-quadrant forced commutated converter and are formed by connecting a bi-directional switch cells in a matrix form. They are capable of fabricating an arbitrary output the voltage of variable frequency and magnitude. Factors like single stage transformation of voltage and frequency, bi-directional power flow capability, sinusoidal input and output voltage, more compact size, low weight, and DC link-free architecture, make this converter more attractive than a standard two stage converter. This book is the first graduate-level textbook presenting a comprehensive treatment of Data Converters. The advancement of digital electronics urged the availability of a still missing support for teaching and self-learning analog-digital interfaces at many levels: the specification, the conversion methods and architectures, the circuit design and the testing. This book, after the necessary study of the background theoretical elements, covers aspects and provide elements for a deep and comprehensive knowledge. The breath and the level of details of topics is enhanced by introductory material in each chapter and the use of many examples, most of them in the form of computer behavioral simulations. The examples and the end-of-chapter problems help in understanding and favor self-practice using tools that are effective for training and for design activity. Data Converters is a textbook that is also essential for engineering professionals as it was written for responding to a shortage of organically organized material on the topic. The book assumes a solid background in analog and digital circuits as well as a working knowledge of simulation tools for circuit and behavioral analysis. A background on statistical analysis is also helpful, though not strictly necessary. Coverage of all the basic elements essential for a clear understanding of sampling, quantization, noise in sampled-data systems and mathematical tools for sampled-data linear systems Comprehensive definition of the parameters used to specify data converters and necessary for understanding product data sheets Coverage of all the architectures used in Nyquist-rate data converters and detailed study of features, limits and design techniques Detailed study of oversampled and Sigma-Delta converters with simulation examples and use of spectra and histograms for a clear understanding of features and limit if the noise shaping Coverage of digital correction and calibration techniques for enhancing performances Use of theory and intuitive views to explain circuits and systems operation and limits Coverage of testing methods and description of the data processing used for testing and characterization Extensive use of Simulink and Matlab in examples and problem sets to assist reader comprehension and favor deeper study

Oxide Free Nanomaterials for Energy Storage and Conversion Applications

covers in depth topics on non-oxide nanomaterials involving transition metal nitrides, carbides, selenides, phosphides, oxynitrides based electrodes, & other non-oxide groups. The current application of nanostructured nonoxides involves their major usage in energy storage and conversion devices variety of applications such as supercapacitor, batteries, dye-sensitized solar cells and hydrogen production applications. The current application of energy storage devices involves their usage of nanostructured non-oxide materials with improved energy and power densities. In this book readers will discover the major advancements in this field during the past decades. The various techniques used to prepare environmentally friendly nanostructured non-oxide materials, their structural and morphological characterization, their improved mechanical and material properties, and finally, current applications and future impacts of these materials are discussed. While planning and fabricating non-oxide materials, the readers must be concern over that they ought to be abundant, cost-efficient and environment-friendly for clean

innovation and conceivably be of use in an expansive choice of utilization. The book gives detailed literature on the development of nanostructured non-oxides, their use as energy related devices and their present trend in the industry and market. This book also emphasizes on the latest advancement about application of these noble non-oxide based materials for photocatalytic water-splitting. Recent progress on various kinds of both photocatalytic and electrocatalytic nanomaterials is reviewed, and essential aspects which govern catalytic behaviours and the corresponding stability are discussed. The book will give an updated literature on the synthesis, potential applications and future of nanostructured non-oxides in energy related applications. This book is highly useful to researchers working in the field with diversified backgrounds are expected to making the chapter truly interdisciplinary in nature. The contents in the book will emphasize the recent advances in interdisciplinary research on processing, morphology, structure and properties of nanostructured non-materials and their applications in energy applications such as supercapacitors, batteries, solar cells, electrochemical water splitting and other energy applications. Thus, nanotechnology researchers, scientists and experts need to have update of the growing trends and applications in the field of science and technology. Further, the postgraduate students, scientists, researchers and technologists are need to buy this book. Offers a comprehensive coverage of the nanostructured non-oxide materials and their potential energy applications Examines the properties of nanostructured non-oxide materials that make them so adaptable Explores the mechanisms by which nanoparticles interact with each other, showing how these can be used for industrial applications Shows the how nanostructured non-oxide materials are used in a wide range of industry sectors, containing energy production and storage Pro Freeware and Open Source Solutions for Business is a practical guide for the small business owner seeking viable alternative to expensive commercial software packages and subscriptions. This comprehensive look at the powerful alternatives to expensive proprietary software provides an illustrated overview of no-cost software solutions. In this book you will find free and open source solutions for office productivity, PDF creation, accounting, image editing and graphic design, desktop publishing, 3D design, CAD, audio and video editing, website and blog creation, customer relationship management, point of sale, networking and security, and alternatives to the Windows and Macintosh operating systems. This guide helps free the cost-conscious business owner from the bonds of expensive proprietary software by exploring the free and powerful alternatives that exist. You can save a substantial sums of money by replacing just a few commercial software titles with free and open source solutions. Learn how with Pro Freeware and Open Source Solutions for Business today. Document from the year 2021 in the subject Computer Science - Programming, grade: 10, Manipal University Jaipur, language: English, abstract: In this book, the primary research objective is to design a novel comparator to get rid-off reference-ladder circuit. The design of power efficient Flash ADC is investigated by utilizing a novel power optimized single-ended comparator. The proposed comparator generates inherent embedded threshold voltage. It uses the variable threshold voltage generation method for producing the reference voltage for the Flash ADC design. By employing optimized comparator, the Flash ADC achieves various benefits, as it does not require the necessity of a reference resistor ladder as well as front-end track and hold circuit. This reduces both layout area and power consumption and makes it appropriate for System-on-Chip (SoC) ADC implementation . The basic structure of the single-ended comparator is modified CMOS Inverter. The performance of modified CMOS Inverter circuit is compared with the static CMOS Inverter. To demonstrate the functionality of the new comparator, 4-bit and 6-bit Flash ADCs has been designed and simulated under the environment of Cadence and LTspice CAD tools. For both of the Flash ADCs, a comparative analysis is presented with previously published works on Flash ADCs. The secondary research objective is to propose a novel power reduction technique for high-speed Flash analog-to-digital converter, which not only reduces the power consumption in comparator but also examines the inactive comparators in the Flash ADC, thus inactive comparators get shutdown to save the unnecessary power consumption. This approach is based on two-step method of data conversion. By this method the total numbers of active

comparators are reduced in comparison with the conventional Flash ADC. This feature of active comparators reduces the overall power consumption of the converter and the resultant architecture develops into power efficient Flash A

Increment your pay, work when and how you need, get your clients get amazing results..... also, carry on with your ideal way of life. There are a few sites you procure free NFT, this book fills in as an aide on the most proficient method to adapt your free procured NFT to million bucks. An excessive number of organizations hit a pay roof, and never bring in the sort of cash (or the sort of effect) that they are able to do. They stall out at one of the Startup, Struggle or even Success - Most individuals fault themselves, and attempt to deal with their MINDSET - But nothing changes since it's not your mentality that is the issue. The MODEL requirements to change. - The model that you purchased when you begin considering potential approaches to independence from the rat race (Manual prospecting to get a couple of leads, pursuing possibilities down as opposed to inspiring them to come to you... also, living off of task income so there will never be steady pay or time for you) A holistic approach to conversion rate optimization that encompasses an entire business—online and offline—to drive more sales and referrals, and increase bottom-line profits In order for your business to survive, you must convert anonymous traffic into sales. The better you do that, the more money you make. The science of tweaking and testing webpages to convert the maximum number of people is known as conversion rate optimization (CRO). Convert Every Click introduces an expanded vision of CRO that the author, Benji Rabhan, calls "holistic conversion rate optimization." Internet technology and innovation have changed the way you should be optimizing your business, your marketing, and your websites. The book looks at the psychology behind this new way of optimizing an entire business for more profits. It examines how your website plays a role in your overall business strategy, and details how to use CRO psychology and strategies to increase profits. Teaches proven strategies for increasing conversions across your entire business Details various split testing and data gathering methods and when to use each one Unveils a holistic approach to conversion rate optimization, using technology to create a more customer-centric experience that not only increases conversions, but also improves customer engagement and satisfaction With guidance from Convert Every Click, you'll learn how to boost conversions and consumption across your entire business by maximizing every bit of your hard-earned traffic before, during, and after a sale. A Quantum system can be viewed as a larger closed system comprising of two components: an open quantum system and its surrounding environment. These two components interact with each other, and in the realm of theoretical physics, this interaction cannot be neglected. This eBook explains mathematical and statistical concepts essential for describing a realistic quantum system by presenting recent contributions in this field. The book commences by explaining of the basics of quantum mechanics, statistical physics, and physics of open quantum systems. Detailed methods of deriving theoretical equations with explicit analytical coefficients with respect to open quantum systems are also explained. The book concludes with the study of a quantum heat converter in the framework of an all-microscopic theory involving fermions, photons, and phonons. Readers of this book will gain a better understanding on the following topics:

- Quantum mechanics including the Boson and Fermion states, Fermi-Dirac and Bose-Einstein statistics, spin-statistics relation, many-body systems of Bosons and Fermions, the Fermi-Dirac integrals of the Fermion state densities, and transport phenomena in semiconductors
- Dissipative dynamics and quantum systems such as friction, diffusion, friction-diffusion relation, mobility, occupation probability dynamics, damping, spectral width, correlation and autocorrelation, memory, stability, bifurcation, self-organization, and chaos
- Lindblad's theory of open quantum systems through the work of Alicki and Lendi
- Quantum tunneling as an interaction with a system.
- Optical bistability, including the fundamental contributions of Carmichael, McCall, and Bonifacio.
- Master equations based on the microscopic theory of Ford, Lewis, and O'Connell.
- Field propagation in a semiconductor structure
- Coherent light propagation in the framework of a microscopic model including the refractive index and the Raman frequency shift.
- Heat conversion in the framework of an all-microscopic model of open quantum systems
- Entropy dynamics in a matter

field system. Conversion Guide to Convert any Recipe to Gluten Free. During my journey to gluten-free, I craved my grandmother's homemade pasta, my mother's famous Chicken Parmigiana and my best friend's warm and chewy chocolate chip cookies. Without those treasured dishes, I would have dove off the gluten-free wagon, back to pain and suffering. Out of necessity, I developed "Gluten Free My Recipe". After analyzing my old eating habits and defining unhealthy, I omitted fried foods, excess carbohydrates and sugary snacks. I dissected my favorite, homemade recipes and made healthy swaps. The result is this book - delicious versions of my favorite meals, all gluten-free and fewer than 500 calories. Follow my comprehensive tips and techniques, and you will be able to gluten-free all of your recipes with ease. The consensus view asserts Augustine developed his later doctrines ca. 396 CE while writing *Ad Simplicianum* as a result of studying scripture. His early *De libero arbitrio* argued for traditional free choice refuting Manichaeism, but his anti-Pelagian writings rejected any human ability to believe without God giving faith. Kenneth M. Wilson's study is the first work applying the comprehensive methodology of reading systematically and chronologically through Augustine's entire extant corpus (works, sermons, and letters 386-430 CE), and examining his doctrinal development. The author explores Augustine's later theology within the prior philosophical-religious context of free choice versus deterministic arguments. This analysis demonstrates Augustine persisted in traditional views until 412 CE and his theological transition was primarily due to his prior Stoic, Neoplatonic, and Manichaeism influences. *Fundamentals of Renewable Energy Systems* goes beyond theoretical aspects of advances in renewable energy and addresses future trends. By focusing on the design of developing technologies, relevant operation and detailed background and an understanding of the application of power electronics and thermodynamics processes in renewable energy, this book provides an analysis of advancing energy systems. The book will be of interest to engineering graduates, researchers, professors and industry professionals involved in the renewable energy sector and is ideal for advanced engineering courses dealing with renewable energy, sources, thermal and electrical energy production and sustainability. With increasing focus on developing low carbon energy production, audiences need to have the engineering knowledge and practical skills to develop and implement creative solutions to engineering problems encountered with renewable energy technologies. By looking at renewable energy capture and conversion, system design and analysis, project development and implementation, each modular chapter examines recent advances in specific renewable energy systems with detailed methods, calculations and worked examples. Includes recent techniques used to design and model different renewable energy sources (RES) Demonstrates how to use power electronics in renewable systems Discusses how to identify, design, integrate and operate the most suitable technologies through key problems Vols. 2, 4-11, 62-68 include the Society's Membership list; v. 55-80 include the Journal of applied mechanics (also issued separately) as contributions from the Society's Applied Mechanics Division.

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