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High-Performance Embedded Computing Elsevier
Advanced Nanocatalysts for Biodiesel Production is a comprehensive and advanced book on practical and theoretical concepts of nanocatalysts dealing with future processing techniques towards environmental sustainability. The book critically discusses on latest emerging advanced nanocatalysts for biodiesel production aimed at reducing complexities and cost in the quest to meet future energy demands. Efforts have been made at clarifying the scope and limitations of biodiesel production in large-scale commercialization. The book discusses the size-dependent catalytic properties of nanomaterials and their working mechanisms in biodiesel

production. Life cycle assessment of optimized viable feedstock from domestic as well as industrial waste is also addressed to improve the efficiency of biodiesel production. The book will be a valuable reference source for researchers and industrial professionals focusing on elementary depth analysis of nanocatalyst multifunctional technological applications in seeking key ideas for mimicking biodiesel production towards ecology and the economy. Key Features Provides a comprehensive environmental assessment of advanced nanocatalysts for biodiesel production to meet the world ' s energy demands Discusses the green platform-based nanocatalysts like metal oxides/sulphides, 2D layered material synthesis and their relevance for biodiesel production. Presents a pathway for cheaper, cleaner and more environmentally friendly processing techniques for biodiesel production

Software Technologies Springer

This volume presents the technical program of the 2007 International Embedded Systems Symposium held in Irvine, California. It covers timely topics, techniques and trends

in embedded system design, including design methodology, networks-on-chip, distributed and networked systems, and system verification. It places emphasis on automotive and medical applications and includes case studies and special aspects in embedded system design.

Autonomous Health Monitoring and Assistance Systems using IoT
Springer Science & Business Media

Technologies for Integrated Energy Systems and Networks Explore emerging technologies that will play a central role in humanity's transition to a low-carbon future In Technologies for Integrated Energy Systems and Networks, a team of distinguished authors delivers a detailed discussion of integrated energy systems and networks, including a comprehensive overview of emerging technologies. The book focuses on the technologies and systems that play a major role in integrated energy systems, like renewable and distributed energy resources, power conversion technologies, hydrogen, storage technologies, electric mobility, zero- and positive-energy buildings, and local energy communities. A one-of-a-kind and holistic treatment of integrated energy systems, this book explores power conversion, including power-to-gas, power-to-liquid, and power-to-heat technologies, as well as other issues of interest to a broad range of students, professionals, and academicians involved in energy transition. It also covers: A thorough introduction to the digitalization of the energy sector and local market development enabling citizen involvement Comprehensive explorations of integrated energy systems as an engine of energy transition Practical discussions of renewable and distributed energy resources for sustainable economic development In-

depth examinations of the role of hydrogen in a low-carbon energy future and the storage technologies of different energy carriers Perfect for electrical, construction, power and energy engineers, Technologies for Integrated Energy Systems and Networks will also earn a place in the libraries of electrochemists and environmental consultants.

The Adventurous and Practical Journey to a Large-Scale Enterprise Solution Springer Nature

The high failure rate of enterprise resource planning (ERP) projects is a pressing concern for both academic researchers and industrial practitioners. The challenges of an ERP implementation are particularly high when the project involves designing and developing a system from scratch. Organizations often turn to vendors and consultants for handling such projects but, every aspect of an ERP project is opaque for both customers and vendors. Unlocking the mysteries of building a large-scale ERP system, The Adventurous and Practical Journey to a Large-Scale Enterprise Solution tells the story of implementing an applied enterprise solution. The book covers the field of enterprise resource planning by examining state-of-the-art concepts in software project management methodology, design and development integration policy, and deployment framework, including: A hybrid project management methodology using waterfall as well as a customized Scrum-based approach A novel multi-tiered software architecture featuring an enhanced flowable process engine A unique platform for coding business processes efficiently Integration to embed ERP modules in physical devices A heuristic-based framework to successfully step into the Go-live period Written to help ERP project professionals, the book charts the path that they should travel from project ideation to systems

implementation. It presents a detailed, real-life case study of implementing a large-scale ERP and uses storytelling to demonstrate incorrect and correct decisions frequently made by vendors and customers. Filled with practical lessons learned, the book explains the ins and outs of adopting project methodologies. It weaves a tale that features both real-world and scholarly aspects of an ERP implementation.

Embedded System Design: Topics, Techniques and Trends Academic Press

Inspired by the leading authority in the field, the Centre for Process Systems Engineering at Imperial College London, this book includes theoretical developments, algorithms, methodologies and tools in process systems engineering and applications from the chemical, energy, molecular, biomedical and other areas. It spans a whole range of length scales seen in manufacturing industries, from molecular and nanoscale phenomena to enterprise-wide optimization and control. As such, this will appeal to a broad readership, since the topic applies not only to all technical processes but also due to the interdisciplinary expertise required to solve the challenge. The ultimate reference for years to come.

Embedded Systems Design with 8051

Microcontrollers John Wiley & Sons

"Digital Design provides a modern approach to learning the increasingly important topic of digital systems design. The text's focus on register-transfer-

level design and present-day applications not only leads to a better appreciation of computers and of today's ubiquitous digital devices, but also provides for a better understanding of careers involving digital design and embedded system design. The book's key features include: An emphasis on register-transfer-level (RTL) design, the level at which most digital design is practiced today, giving readers a modern perspective of the field's applicability. Yet, coverage stays bottom-up and concrete, starting from basic transistors and gates, and moving step-by-step up to more complex components. Extensive use of basic examples to teach and illustrate new concepts, and of application examples, such as pacemakers, ultrasound machines, automobiles, and cell phones, to demonstrate the immediate relevance of the concepts. Separation of basic design from optimization, allowing development of a solid understanding of basic design, before considering the more advanced topic of optimization. Flexible organization, enabling early or late coverage of optimization methods or of HDLs, and enabling choice of VHDL, Verilog, or SystemC HDLs. Career insights and advice from designers with varying levels of experience. A clear bottom-up description of field-programmable gate arrays (FPGAs). About the Author: Frank Vahid is a Professor of Computer Science & Engineering at the University of California, Riverside. He holds Electrical

Engineering and Computer Science degrees; has worked/consulted for Hewlett Packard, AMCC, NEC, Motorola, and medical equipment makers; holds 3 U.S. patents; has received several teaching awards; helped setup UCR's Computer Engineering program; has authored two previous textbooks; and has published over 120 papers on digital design topics (automation, architecture, and low-power).

Nanofluid Applications for Advanced Thermal Solutions IGI Global

This book provides concise, up-to-date and easy-to-follow information on an increasingly important area of hydro-environmental analysis and management. It covers important aspects of both surface and subsurface water quality management, as they are inseparable components of aquifers and the flow in physical domains occur in combination with the other. However, the main emphasis of the book is on the practical development and application of computer based algorithms, via appropriate schemes, to realistic problems. Mathematical theories are not discussed as they can be found in many expert books. All sections of the book include detailed descriptions of practical examples. It also, uniquely, gives explanations regarding the formulation of practical management schedules and tools for hydro-environmental systems. There is a lack of books dealing with the practical aspects of the application of

computer modelling techniques to complex hydrodynamical phenomena, and this book has been written for professionals and researchers, especially those who are not trained mathematicians who, nevertheless, need to make managerial decisions. Computational Methods in the Management of Hydro-Environmental Systems will be an invaluable source of information for post-graduate level researchers and decision-makers who need to apply numerical modelling techniques to investigate hydrodynamic phenomena and pollutants dispersion in natural aquatic systems. Professionals and engineers, who now need to gain insights about the working of computer techniques for choosing appropriate schemes and applying them to realistic problems, will also value this work. Masters' level and final-year graduate students are also expected to benefit from the book. Cyber-Physical Systems CRC Press

These papers represent the proceedings from the 29th Leeds-Lyon Symposium on Tribology, 'Tribological Research and Design for Engineering Systems' which was held in September 2002. Over 130 delegates from 18 countries attended the symposium, and the extensive discussions generated over 150 written questions and responses, which are documented at the end of this proceedings volume. There have been many advances in the field of tribology in recent years, with progress being made in the engineering and interaction of surfaces; micro and nano-tribology; elastohydrodynamics; surface films;

surface texture; tribochemistry; wear and life prediction; with both experimental and theoretical contributions. These advances were reviewed, and the impact of this understanding on the fundamentals upon total engineering activity in design, manufacture and machine operation were considered. Readership: Scientists and researchers in the field of tribology.

Reconfigurable Embedded Control Systems:
Applications for Flexibility and Agility Pearson
Education India

Nanofluid Applications for Advanced Thermal Solutions covers heat transfer applications of nanofluids in a variety of fields and the main techniques used in nanofluid flow and heat transfer analysis. The book features an introduction to heat transfer, nanofluid conduction, convection and nanofluid boiling and provides a thorough understanding of a variety of applications, including the energy storage component of solar PVT systems. It covers fundamental topics such as the analysis and measurement of thermophysical properties, convection, and heat transfer equipment performance, and provides a rigorous framework to assist readers in developing new nanofluid-based devices. Finally, the book explores convective instabilities, nanofluids in porous media, and entropy generation in nanofluids. This will be a valuable resource for upper undergraduate, postgraduate, and doctoral students

and researchers in the fields of nanotechnology and nanofluids looking at heat transfer processes in chemical engineering and the petroleum industry. Provides a comprehensive overview of the heat transfer application of nanofluids in a variety of fields Features numerical and experimental investigations of hybrid and mono nanoparticles based nanofluids Explores comparative performance investigations of various nanofluids for absorption/regeneration and metal extraction/stripping operations Provides case examples of operation and scale-up challenges for nanofluid applications in the industrial process

Embedded Systems Design Newnes

Real-time and embedded systems are essential to our lives, from controlling car engines and regulating traffic lights to monitoring plane takeoffs and landings to providing up-to-the-minute stock quotes. Bringing together researchers from both academia and industry, the Handbook of Real-Time and Embedded Systems provides comprehensive coverage

The VLSI Handbook IGI Global

While most popular digital design books present a perspective rooted in the 1970s and 1980s, Digital System Design takes the subject into the 21st century. It quickly moves through the low-levels of design, making a clear distinction between design and gate-level minimization. The book also emphasizes how one of the key uses of digital design today is to build high-performance alternatives to software in addition to glue logic. And it swiftly progresses to register-transfer-level (RTL) design since that is the level at which most digital

design in practice today is performed.

Computational Methods in the Management of Hydro-Environmental Systems John Wiley & Sons

"This book has collected the latest research within the field of real-time systems engineering, and will serve as a vital reference compendium for practitioners and academics"--Provided by publisher.

High-Performance Embedded Computing CRC Press

This edition of Foundations of Software Testing is aimed at the undergraduate, the graduate students and the practicing engineers. It presents sound engineering approaches for test generation, ion, minimization, assessment, and enhancement. Using numerous examples, it offers a lucid description of a wide range of simple to complex techniques for a variety of testing-related tasks. It also discusses the comparative analyses of commercially available testing tools to facilitate the tool ion.

Molecular Systems Engineering Wiley

This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

A Practical Introduction to Hardware/Software Codesign Elsevier

This title serves as an introduction and reference for the field, with the papers that have shaped the hardware/software co-design since its inception in the early 90s.

Embedded System Design Academic Press

Over the years, the fundamentals of VLSI technology have evolved to include a wide range of topics and a broad range of practices. To encompass such a vast amount of knowledge, The VLSI Handbook focuses on the key concepts, models, and equations that enable the electrical engineer to analyze, design, and predict the behavior of very large-scale integrated circuits. It provides the most up-to-date information on IC technology you can find. Using frequent examples, the Handbook stresses the fundamental theory behind professional applications. Focusing not only on the traditional design methods, it contains all relevant sources of information and tools to assist you in performing your job. This includes software, databases, standards, seminars, conferences and more. The VLSI Handbook answers all your needs in one comprehensive volume at a level that will enlighten and refresh the knowledge of experienced engineers and educate the novice. This one-source reference keeps you current on new techniques and procedures and serves as a review for standard

practice. It will be your first choice when looking for a solution.

Software Engineering and Computer Systems, Part III
Springer Science & Business Media

A Cyber-Physical System (CPS) is an integration of cyber components with their physical counterparts. A cyber unit could be either a software or hardware. Physical components are those objects, which are governed by the law of physics. CPS have transformed how we interact with the physical world, ranging from sensing the environmental parameters to controlling a complex manufacturing industry. The current pandemic has had catastrophic implications people all across the world in terms of health and economy. This book presents the significance and practicality of CPS in a pandemic situation. It provides a strong foundation to the CPS while also incorporating the latest theoretical advances and practical applications to alleviate the state of a pandemic. The book covers... Theoretical background and application-oriented overview of the different CPS models Impact of COVID-19 and similar pandemics on the engineering aspects of various industries and organisations Exciting and impactful CPS based solutions to the different pandemic situations Security and privacy in CPS when applied to critical and sensitive pandemic affected environment Describes the government-funded

projects and work using CPS in real-world scenarios

The book provides a unique and fresh exposure to CPS employed in a pandemic situation. It brings together researchers, practitioners, academics, experts, and industry professionals from around the world to share their knowledge and experience.

Energy Storage in Energy Markets John Wiley & Sons

Over the past several years, embedded systems have emerged as an integral though unseen part of many consumer, industrial, and military devices. The explosive growth of these systems has resulted in embedded computing becoming an increasingly important discipline. The need for designers of high-performance, application-specific computing systems has never been greater, and many universities and colleges in the US and worldwide are now developing advanced courses to help prepare their students for careers in embedded computing. High-Performance Embedded Computing: Architectures, Applications, and Methodologies is the first book designed to address the needs of advanced students and industry professionals. Focusing on the unique complexities of embedded system design, the book provides a detailed look at advanced topics in the field, including multiprocessors, VLIW and superscalar architectures, and power consumption. Fundamental challenges in embedded computing are described, together with design methodologies and models of computation. HPEC provides an in-depth and advanced treatment of all the components of embedded systems, with discussions of the current developments in the field and numerous examples of real-world applications. Covers advanced topics in embedded computing, including multiprocessors, VLIW and superscalar architectures, and power consumption Provides in-depth coverage of networks, reconfigurable systems, hardware-

software co-design, security, and program analysis Includes examples of many real-world embedded computing applications (cell phones, printers, digital video) and architectures (the Freescale Starcore, TI OMAP multiprocessor, the TI C5000 and C6000 series, and others)

Hardware/Software Co-Design Springer

Embedded systems now include a very large proportion of the advanced products designed in the world, spanning transport (avionics, space, automotive, trains), electrical and electronic appliances (cameras, toys, televisions, home appliances, audio systems, and cellular phones), process control (energy production and distribution, factory automation and optimization), telecommunications (satellites, mobile phones and telecom networks), and security (e-commerce, smart cards), etc. The extensive and increasing use of embedded systems and their integration in everyday products marks a significant evolution in information science and technology. We expect that within a short timeframe embedded systems will be a part of nearly all equipment designed or manufactured in Europe, the USA, and Asia. There is now a strategic shift in emphasis for embedded systems designers: from simply achieving feasibility, to achieving optimality. Optimal design of embedded systems means targeting a given market segment at the lowest cost and delivery time possible. Optimality implies seamless integration with the physical and electronic environment while respecting real-world constraints such as hard deadlines, reliability, availability, robustness, power consumption, and cost. In our view, optimality can only be

achieved through the emergence of embedded systems as a discipline in its own right.

Hardware/Software Co-Design for Data Flow

Dominated Embedded Systems IWA Publishing

Users increasingly demand more from their software than ever before – more features, fewer errors, faster runtimes. To deliver the best quality products possible, software engineers are constantly in the process of employing novel tools in developing the latest software applications. Progressions and Innovations in Model-Driven Software Engineering investigates the most recent and relevant research on model-driven engineering. Within its pages, researchers and professionals in the field of software development, as well as academics and students of computer science, will find an up-to-date discussion of scientific literature on the topic, identifying opportunities and advantages, and complexities and challenges, inherent in the future of software engineering.