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From droplet formation to final applications, this practical book presents the subject in a comprehensive and clear form, using only content derived from the latest published results. Starting at the very beginning,

the topic of fluid mechanics is explained, allowing for a suitable regime for printing inks to subsequently be selected. There then follows a discussion on different print-head types and how to form droplets, covering the behavior of droplets in flight and upon impact with the substrate, as well as the droplet's wetting and drying behavior at the substrate. Commonly observed effects, such as the coffee ring effect, are included as well as printing in the third dimension. The book concludes with a look at what the future holds. As a unique feature, worked examples both at the practical and simulation level, as well as case studies are included. As a result, students and engineers in R&D will come to fully understand the complete process of inkjet printing. The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies. This is the first textbook to teach students how to build data analytic solutions on large data sets (specifically in Internet of Things applications) using cloud-based technologies for data storage, transmission and mashup, and AI techniques to analyze this data. This textbook is designed to train college students to master modern cloud computing systems in operating principles, architecture design, machine learning algorithms, programming models and software tools for big data mining, analytics, and cognitive applications. The book will be suitable for use in one-semester computer science or electrical engineering courses on cloud computing, machine

learning, cloud programming, cognitive computing, or big data science. The book will also be very useful as a reference for professionals who want to work in cloud computing and data science. Cloud and Cognitive Computing begins with two introductory chapters on fundamentals of cloud computing, data science, and adaptive computing that lay the foundation for the rest of the book. Subsequent chapters cover topics including cloud architecture, mashup services, virtual machines, Docker containers, mobile clouds, IoT and AI, inter-cloud mashups, and cloud performance and benchmarks, with a focus on Google's Brain Project, DeepMind, and X-Lab programs, IBKai HwangM SyNapse, Bluemix programs, cognitive initiatives, and neurocomputers. The book then covers machine learning algorithms and cloud programming software tools and application development, applying the tools in machine learning, social media, deep learning, and cognitive applications. All cloud systems are illustrated with big data and cognitive application examples. Intelligent systems, or artificial intelligence technologies, are playing an increasing role in areas ranging from medicine to the major manufacturing industries to financial markets. The consequences of flawed artificial intelligence systems are equally wide ranging and can be seen, for example, in the programmed trading-driven stock market crash of October 19, 1987. Intelligent Systems: Technology and Applications, Six Volume Set connects theory with

proven practical applications to provide broad, multidisciplinary coverage in a single resource. In these volumes, international experts present case-study examples of successful practical techniques and solutions for diverse applications ranging from robotic systems to speech and signal processing, database management, and manufacturing. Far from being a melting pot, multi-racial Singapore prides itself on the richness of its ethnic communities and cultures. This volume provides an updated account of the heterogeneity within each of the main communities — the Chinese, Malay, Indian, Eurasian and Others. It also documents the ethnic cultures of these communities by discussing their histories, celebrations, cultural symbols, life cycle rituals, cultural icons and attempts to preserve culture. While chapters are written by scholars drawing insight from a variety of sources ranging from academic publications to discussions with community experts, it is written in an accessible way. This volume seeks to increase intercultural understanding through presenting ample insights into the cultural beliefs and practices of the different ethnic communities. While this book is about diversity, a closer examination of the peoples and cultures of Singapore demonstrates the many similarities communities share in this Singaporean space.

Contents: Foreword (Janil

Puthucheary) Acknowledgements Introductory: Ethnic Diversity, Identity and Everyday Multiculturalism in

Singapore (Mathew Mathews)Chinese: The Chinese in Singapore (Tong Chee Kiong)Chinese Community and Culture in Singapore (Soon Su-Chuin, Elvin Xing Yifu and Tong Chee Kiong)Malay: The Malays in Singapore (Suriani Suratman)Malay Community and Culture in Singapore (Suriani Suratman and Siti Hajar Esa)Indian: The Indians in Singapore (Vineeta Sinha)Tamil Community and Culture in Singapore (A Mani, Pravin Prakash and Shanthini Selvarajan)Malayalee Community and Culture in Singapore (Anitha Devi Pillai)Punjabi Sikh Community and Culture in Singapore (Amrit Kaur and Bhajan Singh)Gujerati Community and Culture in Singapore (Rizwana Abdul Azeez)Minority Indian communities in Singapore (Nilanjan Raghunath)Eurasians and Others: The Eurasians and Others in Singapore (Mathew Mathews)Eurasian Community and Culture in Singapore (Alexius Pereira)Filipino Community and Culture in Singapore (Lou Antolihao and Clement Mesenas)Myanmar Community and Culture in Singapore (Moe Thuzar and Christine Lim Li Ping)

Readership: Student and researchers of Singapore society and general readers interested in Singapore and its ethnic culture. Keywords: Ethnic Diversity;Culture;Customs;Traditions;Heritage;Singaporean Chinese;Singaporean Malays;Singaporean Indians;Singaporean Eurasians

Review:O Carl Schmitt and Leo Strauss in the Chinese-Speaking World: Reorienting the Political examines the reception of Carl

Schmitt and Leo Strauss in China and Taiwan. The legacies of both Schmitt, the German legal theorist and thinker who joined the Nazi party, and Strauss, the German-Jewish classicist and political philosopher who became famous after his emigration to the United States, are highly controversial. Since the 1990s, however, these thinkers have had a powerful resonance for Chinese scholars. Today, when Chinese intellectuals debate the Chinese state, the future role of China in the world, the liberal international order, and even the meaning of Confucian civilization, they often employ Schmittian and Straussian concepts like "the political," "friend-enemy," "state of exception," "liberal education," and "natural right." The very possibility of a genuine Chinese political theory is often thought to be tied to the legacy of these two thinkers. This volume explores this complex phenomenon with a cross-cultural and interdisciplinary approach. The twelve essays in this volume are written from a range of perspectives by philosophers, political theorists, historians, and legal scholars from China, Germany, Taiwan, and the United States.

Computer architecture deals with the physical configuration, logical structure, formats, protocols, and operational sequences for processing data, controlling the configuration, and controlling the operations over a computer. It also encompasses word lengths, instruction codes, and the interrelationships among the main parts of a computer or group of computers. This two-volume set offers a

comprehensive coverage of the field of computer organization and architecture. "This book provides a comprehensive interdisciplinary and refereed research on the most emerging and breakthrough areas of information science and technology. Including innovative studies on Image and speech recognition, human-computer interface, and wireless technologies"-- THE CONTEXT OF PARALLEL

PROCESSING The field of digital computer architecture has grown explosively in the past two decades.

Through a steady stream of experimental research, tool-building efforts, and theoretical studies, the design of an instruction-set architecture, once considered an art, has been transformed into one of the most quantitative branches of computer technology. At the same time, better understanding of various forms of concurrency, from standard pipelining to massive parallelism, and invention of architectural structures to support a reasonably efficient and user-friendly programming model for such systems, has allowed hardware performance to continue its exponential growth. This trend is expected to continue in the near future. This explosive growth, linked with the expectation that performance will continue its exponential rise with each new generation of hardware and that (in stark contrast to software) computer hardware will function correctly as soon as it comes off the assembly line, has its down side. It has led to unprecedented hardware complexity and almost intolerable development costs.

The challenge facing current and future computer designers is to institute simplicity where we now have complexity; to use fundamental theories being developed in this area to gain performance and ease-of-use benefits from simpler circuits; to understand the interplay between technological capabilities and limitations, on the one hand, and design decisions based on user and application requirements on the other. Edited by the leaders in the field, with chapters from highly renowned international researchers, this is the first coherent overview of the latest in silicon nanomembrane research. As such, it focuses on the fundamental and applied aspects of silicon nanomembranes, ranging from synthesis and manipulation to manufacturing, device integration and system level applications, including uses in bio-integrated electronics, three-dimensional integrated photonics, solar cells, and transient electronics. The first part describes in detail the fundamental physics and materials science involved, as well as synthetic approaches and assembly and manufacturing strategies, while the second covers the wide range of device applications and system level demonstrators already achieved, with examples taken from electronics and photonics and from biomedicine and energy. An Introduction to Parallel Programming, Second Edition presents a tried-and-true tutorial approach that shows students how to develop effective parallel programs with MPI, Pthreads and OpenMP. As the first

undergraduate text to directly address compiling and running parallel programs on multi-core and cluster architecture, this second edition carries forward its clear explanations for designing, debugging and evaluating the performance of distributed and shared-memory programs while adding coverage of accelerators via new content on GPU programming and heterogeneous programming. New and improved user-friendly exercises teach students how to compile, run and modify example programs. Takes a tutorial approach, starting with small programming examples and building progressively to more challenging examples Explains how to develop parallel programs using MPI, Pthreads and OpenMP programming models A robust package of online ancillaries for instructors and students includes lecture slides, solutions manual, downloadable source code, and an image bank New to this edition: New chapters on GPU programming and heterogeneous programming New examples and exercises related to parallel algorithms Practical Performance Modeling: Application of the MOSEL Language introduces the new and powerful performance and reliability modeling language MOSEL (MOdeling, Specification and Evaluation Language), developed at the University of Erlangen, Germany. MOSEL facilitates the performance and reliability modeling of a computer, communication, manufacturing or workflow management system in a very intuitive and simple way. The core of MOSEL

consists of constructs to specify the possible states and state transitions of the system under consideration. This specification is very compact and easy to understand. With additional constructs, the interesting performance or reliability measures and graphical representations can be specified. With some experience, it is possible to write down the MOSEL description of a system immediately only by knowing the behavior of the system under study. There are no restrictions, unlike models using, for example, queueing networks, Petri nets or fault trees. MOSEL fulfills all the requirements for a universal modeling language. It is high level, system-oriented, and usable. It is open and can be integrated with many tools. By providing compilers, which translate descriptions specified in MOSEL into the tool-specific languages, all previously implemented tools with their different methods and algorithms (including simulation) can be used. Practical Performance Modeling: Application of the MOSEL Language provides an easy to understand but nevertheless complete introduction to system modeling using MOSEL and illustrates how easily MOSEL can be used for modeling real-life examples from the fields of computer, communication, and manufacturing systems. Practical Performance Modeling: Application of the MOSEL Language will be of interest to professionals and students in the fields of performance and reliability modeling in computer science, communication, and manufacturing. It is also

well suited as a textbook for university courses covering performance and reliability modeling with practical applications. The definitive guide to successfully integrating social, mobile, Big-Data analytics, cloud and IoT principles and technologies. The main goal of this book is to spur the development of effective big-data computing operations on smart clouds that are fully supported by IoT sensing, machine learning and analytics systems. To that end, the authors draw upon their original research and proven track record in the field to describe a practical approach integrating big-data theories, cloud design principles, Internet of Things (IoT) sensing, machine learning, data analytics and Hadoop and Spark programming. Part 1 focuses on data science, the roles of clouds and IoT devices and frameworks for big-data computing. Big data analytics and cognitive machine learning, as well as cloud architecture, IoT and cognitive systems are explored, and mobile cloud-IoT-interaction frameworks are illustrated with concrete system design examples. Part 2 is devoted to the principles of and algorithms for machine learning, data analytics and deep learning in big data applications. Part 3 concentrates on cloud programming software libraries from MapReduce to Hadoop, Spark and TensorFlow and describes business, educational, healthcare and social media applications for those tools. The first book describing a practical approach to integrating social, mobile, analytics, cloud and IoT

(SMACT) principles and technologies Covers theory and computing techniques and technologies, making it suitable for use in both computer science and electrical engineering programs Offers an extremely well-informed vision of future intelligent and cognitive computing environments integrating SMACT technologies Fully illustrated throughout with examples, figures and approximately 150 problems to support and reinforce learning Features a companion website with an instructor manual and PowerPoint slides www.wiley.com/go/hwangIoT Big-Data Analytics for Cloud, IoT and Cognitive Computing satisfies the demand among university faculty and students for cutting-edge information on emerging intelligent and cognitive computing systems and technologies. Professionals working in data science, cloud computing and IoT applications will also find this book to be an extremely useful working resource. Embedded systems are usually composed of several interacting components such as custom or application specific processors, ASICs, memory blocks, and the associated communication infrastructure. The development of tools to support the design of such systems requires a further step from high-level synthesis towards a higher abstraction level. The lack of design tools accepting a system-level specification of a complete system, which may include both hardware and software components, is one of the major bottlenecks in the design of embedded systems. Thus, more and more research

efforts have been spent on issues related to system-level synthesis. This book addresses the two most active research areas of design automation today: high-level synthesis and system-level synthesis. In particular, a transformational approach to synthesis from VHDL specifications is described. System Synthesis with VHDL provides a coherent view of system synthesis which includes the high-level and the system-level synthesis tasks. VHDL is used as a specification language and several issues concerning the use of VHDL for high-level and system-level synthesis are discussed. These include aspects from the compilation of VHDL into an internal design representation to the synthesis of systems specified as interacting VHDL processes. The book emphasizes the use of a transformational approach to system synthesis. A Petri net based design representation is rigorously defined and used throughout the book as a basic vehicle for illustration of transformations and other design concepts. Iterative improvement heuristics, such as tabu search, simulated annealing and genetic algorithms, are discussed and illustrated as strategies which are used to guide the optimization process in a transformation-based design environment. Advanced topics, including hardware/software partitioning, test synthesis and low power synthesis are discussed from the perspective of a transformational approach to system synthesis. System Synthesis with VHDL can be used for advanced

undergraduate or graduate courses in the area of design automation and, more specifically, of high-level and system-level synthesis. At the same time the book is intended for CAD developers and researchers as well as industrial designers of digital systems who are interested in new algorithms and techniques supporting modern design tools and methodologies. A state-of-the-art overview of high-k dielectric materials for advanced field-effect transistors, from both a fundamental and a technological viewpoint, summarizing the latest research results and development solutions. As such, the book clearly discusses the advantages of these materials over conventional materials and also addresses the issues that accompany their integration into existing production technologies. Aimed at academia and industry alike, this monograph combines introductory parts for newcomers to the field as well as advanced sections with directly applicable solutions for experienced researchers and developers in materials science, physics and electrical engineering. This book is intended to support faculty in designing and conducting case teaching. The book is a practical 'how to' guide for faculty setting up and delivering a case based class. It can be used by instructors of all levels as it discusses issues such as class culture, teaching pace, grading, board usage etc. Computer Architecture/Software Engineering Distributed and Cloud Computing: From Parallel Processing to the

Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively

parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online This handbook provides an evidence-based approach to common obstetrics & gynaecological problems faced by O & G clinicians and general practitioners in their daily practice. It is the only book available with current evidence-based recommendations and protocols in O & G. Compiled by experienced experts, this new edition contains 24 new chapters. The existing chapters have been updated using the latest evidence. The authors have included multiple flow charts and detailed practical approaches to various gynaecology and obstetric issues. The book will be a valuable and quick practical guide to everyone — not only to general practitioners and O & G clinicians, but also to medical students and resident doctors. Topics like “Approach to Ectopic Pregnancy” and “Pelvic Inflammatory Disease” will provide invaluable guidance to even emergency medicine doctors. Contents:Obstetrics:Pre-Conception PreparationRoutine Antenatal Follow-UpVaccination in PregnancyApproach to Bleeding in Early PregnancyApproach to Spontaneous

Miscarriage
Approach to Recurrent Spontaneous Miscarriage (RSM)
Approach to Abdominal Pain in Pregnancy
Obstetric & Gynaecological (O&G) Causes of Abdominal Pain in Early Pregnancy
Obstetric & Gynaecological (O&G) Causes of Abdominal Pain in Late Pregnancy
Non Obstetric & Gynaecological (Non O&G) Causes of Abdominal Pain in Pregnancy: Simple Approach by Site of Pain
Non Obstetric & Gynaecological (Non O&G) Causes of Abdominal Pain in Pregnancy
Approach to Ectopic Pregnancy (EP)
Approach to Gestational Trophoblastic Disease (GTD)
Termination of Pregnancy (TOP)
Medical Disorders and Potential Risk Factors in Pregnancy
Multiple Pregnancy
Infections in Pregnancy
Skin Disorders in Pregnancy
Approach to Depression in Pregnancy
Medications in Pregnancy and Lactation
Approach to Postnatal Problems
Lactation and Breastfeeding
Frequently Asked Questions on Pregnancy
Investigations in Obstetrics: Routine Antenatal Blood Investigations and Infective Screening
Approach to Prenatal Screening for Thalassaemia
Miscellaneous Antenatal Blood Investigations
Screening for Chromosomal Defects
Prenatal Invasive Diagnostic Tests
Ultrasonography and Foetal Doppler in Obstetrics
Approach to Screening Scan Foetal Abnormalities
Laboratory Values in Normal Pregnancy
An Overview of Serum Human Chorionic Gonadotropin

(HCG)Gynaecology:AmenorrhoeaAbnormal Uterine Bleeding (AUB)Adolescent Abnormal Uterine Bleeding (AUB)Premenstrual Syndrome (PMS)DysmenorrhoeaChronic Pelvic Pain (CPP)Polycystic Ovarian Syndrome (PCOS)Approach to Gynaecological CancersPap Smear Screening and Management of Abnormal Pap SmearsPost Coital Bleeding (PCB)Human Papilloma (HPV) Vaccines and HPV Testing — Salient Facts for Clinical PracticeVulvar and Vaginal LesionsPost Menopausal Bleeding (PMB)Thickened EndometriumPolyps (Cervical/Endometrial)FibroidEndometriosis and AdenomyosisOvarian CystPelvic Organ Prolapse (POP)Voiding and Urinary DisordersVaginal Discharge and Recurrent Vulvovaginal CandidiasisPelvic Inflammatory Disease (PID)Sexually Transmitted Infections (STI)Oral Hormonal ContraceptionNon-Oral Contraception/Contraception for Lactating MothersChoice of ContraceptionContraception in Patients with Medical Conditions and Drug InteractionsIntrauterine Contraceptive Device (IUCD) and Associated DilemmasEmergency ContraceptionMenopauseOsteoporosisHormone Replacement Therapy (HRT)Subfertility, Semen Analysis and Management of AzoospermiaApproach to HyperprolactinaemiaApproach to GalactorrhoeaSexual Dysfunctional ProblemsMammogram, Breast Ultrasound Scan and Breast BiopsyBreast Cancer ScreeningInvestigations in Gynaecology:Ovarian

Tumour Markers
Female Hormonal Profile
Imaging Modalities in Gynaecology
Role of Interventional Radiology (IR) in Obstetrics and Gynaecology
Readership: O&G clinicians, general practitioners, medical students and the interested public.

Keywords: Obstetrics; Gynaecology; O&G

Clinicians; General Practitioners
Key Features: It is evidence based, compiled by experienced

experts
Reviews: Reviews from the First Edition:

"Practical Obstetrics & Gynaecology Handbook for the General Practitioner is an essential reading textbook for primary-care doctors and graduate doctors preparing for their post-graduate degrees or diplomas in Family Medicine. The practising general practitioner or family physician will be able to find ready answers to the problems they face during difficult consultations in obstetrics & gynaecology. Practical Obstetrics & Gynaecology Handbook for the General Practitioner is a must-have Desk Reference Book for the busy general practitioner. I congratulate the authors for this much-needed and long-awaited book which will upgrade the practice of obstetrics and gynaecology by general practitioners." Lim Lean Huat Adjunct Associate Professor, National University of Singapore Past President, College of Family Physicians "This is a book of concise, up-to-date, evidence-based knowledge for the busy family physician. In the pages are the must-know information on 11 topics of obstetric care, 5 topics of investigations in obstetrics, 28 topics of

gynaecological care, and 6 topics on investigations in gynaecology. Keep it by your side in the consultation room." Goh Lee Gan Associate Professor, National University of Singapore Chief Examiner, MMed (Family Medicine) (Singapore) 2005 "Practical Obstetrics & Gynaecology Handbook for the General Practitioner is written clearly and concisely. It covers the spectrum of common conditions that are likely to present to the family practitioner and provides a simple review with key points on management of these conditions. The liberal use of tables and charts makes it very useful as a quick reference handbook in busy clinics. KK Women's and Children's Hospital continues to have the highest patient load in Obstetrics and Gynaecology in Singapore. As the national hospital for women, it is indeed appropriate that such a practical handbook be published under its auspices. The authors are very experienced in the field and must be heartily congratulated for this laudable publication." Ivy Ng Clinical Associate Professor, National University of Singapore Chief Executive Officer, KK Women's and Children's Hospital "I will strongly recommend this handy up-to-date book for the busy GP who will be advised on first hand practical management, referral criteria & guidelines and additional information counselling for the patient on the probable actions by OBGYN after referral. It deserves a place in any Singapore GP practice clinic desk and in my OBGYN clinic as well. I would echo strongly that it is a much

needed and long awaited book for the General Practitioner." Dr Tan Kok Hian Editor, Singapore Journal of Obstetrics and Gynaecology Associate Editor, Singapore Medical Journal "It is an excellent book that answers the everyday questions that general practitioner will ask in their clinical practice. This is a hand-book that I would thoroughly recommend to all GPs. The concise nature of the text makes it easy for busy clinicians to refer to." Annals Academy of Medicine, Singapore "Practical Obstetrics and Gynaecology Handbook for the General Practitioner is an update and concise reference book. The authors have presented the subject material in both obstetrics and gynecology in an evidence-based fashion and used tables and diagrams to provide the practitioner with logical algorithms to basic and complex problems. The authors should be congratulated on for providing this outstanding textbook which can become a leading desk reference for the busy clinician and trainee." Professor Haywood L Brown Chair Obstetrics and Gynaecology, Duke University Medical Center "Practical Obstetrics and Gynaecology Handbook for the General Practitioner is a landmark publication on Obstetrics and Gynaecology, which will no doubt go down in history as one of the must-have, widely-read, Singapore-published medical references." Singapore Medical Journal, Singapore This book covers four areas of parallel computing: principles, technology, architecture, and programming. It is suitable for

professionals and undergraduates taking courses in computer engineering, parallel processing, computer architecture, scalable computers or distributed computing. This is the instructor's manual to a text which presents the latest technologies for parallel processing and high performance computing. The main text deals with advanced computer architecture and parallel processing systems and techniques, providing an integrated study of computer hardware and software systems, and the material is suitable for use on courses found in computer science, computer engineering, or electrical engineering departments. This material is only available to lecturers. Computer Architecture and Organization, 3rd edition, provides a comprehensive and up-to-date view of the architecture and internal organization of computers from a mainly hardware perspective. With a balanced treatment of qualitative and quantitative issues. Hayes focuses on the understanding of the basic principles while avoiding overemphasis on the arcane aspects of design. This approach best meets the needs of undergraduate or beginning graduate-level students. Programming Language Pragmatics, Fourth Edition, is the most comprehensive programming language textbook available today. It is distinguished and acclaimed for its integrated treatment of language design and implementation, with an emphasis on the fundamental tradeoffs that continue to drive software development. The book provides readers with a solid

foundation in the syntax, semantics, and pragmatics of the full range of programming languages, from traditional languages like C to the latest in functional, scripting, and object-oriented programming. This fourth edition has been heavily revised throughout, with expanded coverage of type systems and functional programming, a unified treatment of polymorphism, highlights of the newest language standards, and examples featuring the ARM and x86 64-bit architectures. Updated coverage of the latest developments in programming language design, including C & C++11, Java 8, C# 5, Scala, Go, Swift, Python 3, and HTML 5 Updated treatment of functional programming, with extensive coverage of OCaml New chapters devoted to type systems and composite types Unified and updated treatment of polymorphism in all its forms New examples featuring the ARM and x86 64-bit architectures Embedded Systems Architecture is a practical and technical guide to understanding the components that make up an embedded system's architecture. This book is perfect for those starting out as technical professionals such as engineers, programmers and designers of embedded systems; and also for students of computer science, computer engineering and electrical engineering. It gives a much-needed 'big picture' for recently graduated engineers grappling with understanding the design of real-world systems for the first time, and provides professionals with a systems-level picture of the key elements that

can go into an embedded design, providing a firm foundation on which to build their skills. Real-world approach to the fundamentals, as well as the design and architecture process, makes this book a popular reference for the daunted or the inexperienced: if in doubt, the answer is in here! Fully updated with new coverage of FPGAs, testing, middleware and the latest programming techniques in C, plus complete source code and sample code, reference designs and tools online make this the complete package Visit the companion web site at

<http://booksite.elsevier.com/9780123821966/> for source code, design examples, data sheets and more A true introductory book, provides a comprehensive get up and running reference for those new to the field, and updating skills: assumes no prior knowledge beyond undergrad level electrical engineering Addresses the needs of practicing engineers, enabling it to get to the point more directly, and cover more ground. Covers hardware, software and middleware in a single volume Includes a library of design examples and design tools, plus a complete set of source code and embedded systems design tutorial materials from companion website Cluster Computing ?McGraw-Hill?????? This book provides a comprehensive overview of the latest developments and materials used in electrochemical energy storage and conversion devices, including lithium-ion batteries, sodium-ion batteries, zinc-ion batteries, supercapacitors and conversion materials for

solar and fuel cells. Chapters introduce the technologies behind each material, in addition to the fundamental principles of the devices, and their wider impact and contribution to the field. This book will be an ideal reference for researchers and individuals working in industries based on energy storage and conversion technologies across physics, chemistry and engineering. FEATURES Edited by established authorities, with chapter contributions from subject-area specialists Provides a comprehensive review of the field Up to date with the latest developments and research Editors Dr. Mesfin A. Kebede obtained his PhD in Metallurgical Engineering from Inha University, South Korea. He is now a principal research scientist at Energy Centre of Council for Scientific and Industrial Research (CSIR), South Africa. He was previously an assistant professor in the Department of Applied Physics and Materials Science at Hawassa University, Ethiopia. His extensive research experience covers the use of electrode materials for energy storage and energy conversion. Prof. Fabian I. Ezema is a professor at the University of Nigeria, Nsukka. He obtained his PhD in Physics and Astronomy from University of Nigeria, Nsukka. His research focuses on several areas of materials science with an emphasis on energy applications, specifically electrode materials for energy conversion and storage. This authoritative volume brings together a balanced and complete treatment of the very latest computer architectures. Using a helpful

framework based on a machine evolution, the author outlines the main approaches to designing computer structures and then covers the scaling of computers and their workloads, multicomputers, and scalable or multithreaded multiprocessors. Despite the tremendous advances in performance enabled by modern architectures, there are always new applications and demands arising that require ever-increasing capabilities. Keeping up with these demands requires a deep-seated understanding of contemporary architectures in concert with a fundamental understanding of basic principles that allows one to anticipate what will be possible over the system's lifetime. *Advanced Computer Architectures* focuses on the design of high performance supercomputers with balanced coverage of the hardware, software structures, and application characteristics. This book is a timeless distillation of underlying principles punctuated by real-world implementations in popular current and past commercially available systems. It briefly reviews the basics of uniprocessor architecture before outlining the most popular processing paradigms, performance evaluation, and cost factor considerations. This builds to a discussion of pipeline design and vector processors, data parallel architectures, and multiprocessor systems. Rounding out the book, the final chapter explores some important current and emerging trends such as Dataflow, Grid, biology-

inspired, and optical computing. More than 220 figures, tables, and equations illustrate the concepts presented. Based on the author's more than thirty years of teaching and research, *Advanced Computer Architectures* endows you with the tools necessary to reach the limits of existing technology, and ultimately, to break them. This book is an archival reference for the evolving field of biomaterials and their applications in society, focusing on their composition, properties, characterization, chemistry and applications in bioenergy, chemicals, and novel materials and biomaterials. It has broad appeal due to the recent heightened awareness around bioenergy and biomass as potential replacements for petroleum feedstocks. The book is divided into three parts: cellulose-based biomaterials, chitin and chitosan biomaterials, and hemicelluloses and other polysaccharides. Each chapter addresses a separate biomaterial, discussing its chemical, physical, and biological attributes, and hones in on each compound's intrinsic tunability for numerous chemical transformations. In the current quest for a "green" economy and resources, this book will help inspire scientists towards novel sources for chemicals, materials, and energy in the years to come. This volume is the proceedings of the fifth International Symposium on Algorithms and Computation, ISAAC '94, held in Beijing, China in August 1994. The 79 papers accepted for inclusion in the volume after a careful reviewing

process were selected from a total of almost 200 submissions. Besides many internationally renowned experts, a number of excellent Chinese researchers present their results to the international scientific community for the first time here. The volume covers all relevant theoretical and many applicational aspects of algorithms and computation.

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