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KEY=TO - JIMENA GIOVANNA

Liquids, Solutions, and Interfaces

From Classical Macroscopic Descriptions to Modern Microscopic Details

Oxford University Press on Demand Fawcett (chemistry, University of California-Davis) introduces modern topics in solution chemistry to senior undergraduates and graduate students who have completed two semesters or three quarters of chemical thermodynamics and statistical mechanics.

HVDC for Grid Services in Electric Power Systems

MDPI The modern electric power system has evolved into a huge nonlinear complex system due to the interconnection of thousands of generation and transmission systems. The unparalleled growth of renewable energy resources (RESs) has caused significant concern regarding grid stability and power quality, and it is essential to find ways to control such a massive system for effective operation. The controllability of HVDC and FACTS devices allows for improvement of the dynamic behavior of grids and their flexibility. Research is being carried out at both the system and component levels of modelling, control, and stability. This Special Issue aims to present novel HVDC topologies and operation strategies to prevent abnormal grid conditions.

Computers, Networks, Systems, and Industrial Engineering 2011

Springer Science & Business Media The series "Studies in Computational Intelligence" (SCI) publishes new developments and advances in the various areas of computational intelligence - quickly and with a high quality. The intent is to cover the theory, applications, and design methods of computational intelligence, as embedded in the fields of engineering, computer science, physics and life science, as well as the methodologies behind them. The series contains monographs, lecture notes and edited volumes in computational intelligence spanning the areas of neural networks, connectionist systems, genetic algorithms, evolutionary computation, artificial intelligence, cellular automata, self-organizing systems, soft computing, fuzzy systems, and hybrid intelligent systems. Critical to both contributors and readers are the short publication time and world-wide distribution - this permits a rapid and broad dissemination of research results. The purpose of the 1st ACIS International Conference on Computers, Networks, Systems, and Industrial Engineering (CNSI 2011) was held on May23-25, 2011 in Jeju, Jeju Island, South Korea is to bring together scientist, engineers, computer users, students to share their experiences and exchange new ideas, and research results about all aspects (theory, applications and tools) of computer and information science, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the best 22 papers from those papers accepted for presentation at the conference in order to publish them in this volume. The papers were chosen based on review scores submitted by members of the program committee, and underwent further rigorous rounds of review.

Analysis, Architectures and Modelling of Embedded Systems

Third IFIP TC 10 International Embedded Systems Symposium, IESS 2009, Langenargen, Germany, September 14-16, 2009, Proceedings

Springer Science & Business Media This book presents the technical program of the International Embedded Systems Symposium (IESS) 2009. Timely topics, techniques and trends in embedded system design are covered by the chapters in this volume, including modelling, simulation, verification, test, scheduling, platforms and processors. Particular emphasis is paid to automotive systems and wireless sensor networks. Sets of actual case studies in the area of embedded system design are also included. Over recent years, embedded systems have gained an enormous amount of power and functionality and now enter numerous application areas, due to the fact that many of the formerly external components can now be integrated into a single System-on-Chip. This tendency has resulted in a dramatic reduction in the size and cost of embedded systems. As a unique technology, the design of embedded systems is an essential element of many innovations. Embedded systems meet their performance goals, including real-time constraints, through a combination of special-purpose hardware and software components tailored to the system requirements. Both the development of new features and the reuse of existing intellectual property components are essential to keeping up with ever more demanding customer requirements. Furthermore, design complexities are steadily growing with an increasing number of components that have to cooperate properly. Embedded system designers have to cope with multiple goals and constraints simultaneously, including timing, power, reliability, dependability, maintenance, packaging and, last but not least, price.

Computer Organization, Design, and Architecture, Fourth Edition

CRC Press Suitable for a one- or two-semester undergraduate or beginning graduate course in computer science and computer engineering. Computer Organization, Design, and Architecture, Fourth Edition presents the operating principles, capabilities, and limitations of digital computers to enable development of complex yet efficient systems. With 40% updated material and four new chapters, this edition takes students through a solid, up-to-date exploration of single- and multiple-processor systems, embedded architectures, and performance evaluation. New to the Fourth Edition Additional material that covers the ACM/IEEE computer science and engineering curricula More coverage on computer organization, embedded systems, networks, and performance evaluation Expanded discussions of RISC, CISC, VLIW, and parallel/pipelined architectures The latest information on integrated circuit technologies and devices, memory hierarchy, and storage Updated examples, references, and problems Supplying appendices with relevant details of integrated circuits reprinted from vendors' manuals, this book provides all of the necessary information to program and design a computer system.

Big Data Applications and Services 2017

The 4th International Conference on Big Data Applications and Services

Springer This proceedings volume contains selected papers from the Fourth International Conference on Big Data Applications and Services (BigDAS 2017), held in Tashkent, Uzbekistan on August 15-18, 2017. Big data has become a core technology providing innovative solutions in many fields including social media, healthcare and manufacturing. The Fourth International Conference on Big Data Applications and Services (BigDAS 2017) presented innovative results, encouraged academic and industrial interaction, and promoted collaborative research in the field of big data worldwide. The conference was organized by the Korea Big Data Services Society and National University of Uzbekistan.

Computer Organization, Design, and Architecture, Fifth Edition

CRC Press Suitable for a one- or two-semester undergraduate or beginning graduate course in computer science and computer engineering, *Computer Organization, Design, and Architecture, Fifth Edition* presents the operating principles, capabilities, and limitations of digital computers to enable the development of complex yet efficient systems. With 11 new sections and four revised sections, this edition takes students through a solid, up-to-date exploration of single- and multiple-processor systems, embedded architectures, and performance evaluation. See What's New in the Fifth Edition Expanded coverage of embedded systems, mobile processors, and cloud computing Material for the "Architecture and Organization" part of the 2013 IEEE/ACM Draft Curricula for Computer Science and Engineering Updated commercial machine architecture examples The backbone of the book is a description of the complete design of a simple but complete hypothetical computer. The author then details the architectural features of contemporary computer systems (selected from Intel, MIPS, ARM, Motorola, Cray and various microcontrollers, etc.) as enhancements to the structure of the simple computer. He also introduces performance enhancements and advanced architectures including networks, distributed systems, GRIDs, and cloud computing. Computer organization deals with providing just enough details on the operation of the computer system for sophisticated users and programmers. Often, books on digital systems' architecture fall into four categories: logic design, computer organization, hardware design, and system architecture. This book captures the important attributes of these four categories to present a comprehensive text that includes pertinent hardware, software, and system aspects.

Cryptographic Hardware and Embedded Systems - CHES 2007

9th International Workshop, Vienna, Austria, September 10-13, 2007, Proceedings

Springer This book constitutes the refereed proceedings of the 9th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2007. The 31 revised full papers cover side channels, low resources, hardware attacks and countermeasures, special purpose hardware, efficient algorithms for embedded processors, efficient hardware, trusted computing.

Secure Smart Embedded Devices, Platforms and Applications

Springer Science & Business Media New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services. As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life. *Secure Smart Embedded Devices, Platforms and Applications* provides a broad overview of the many security and practical issues of embedded devices, tokens, and their operation systems, platforms and main applications. It also addresses a diverse range of industry/government initiatives and considerations, while focusing strongly on technical and practical security issues. The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented. A sufficient level of technical detail to support embedded systems is provided throughout the text, although the book is quite readable for those seeking awareness through an initial overview of the topics. This edited volume benefits from the contributions of industry and academic experts and helps provide a cross-discipline overview of the security and practical issues for embedded systems, tokens, and platforms. It is an ideal complement to the earlier work, *Smart Cards Tokens, Security and Applications* from the same editors.

Poromechanics II

Proceedings of the Second Biot Conference on Poromechanics, Grenoble, France, 26-28 August 2002

CRC Press These proceedings deal with the fundamentals and applications of poromechanics to geomechanics, material sciences, geophysics, acoustics and biomechanics. They discuss the state of the art in such topics as constitutive modelling and upscaling methods.

Embedded Systems Architecture

A Comprehensive Guide for Engineers and Programmers

Newnes *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

Web-Based Services: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global The recent explosion of digital media, online networking, and e-commerce has generated great new opportunities for those Internet-savvy individuals who see potential in new technologies and can turn those possibilities into reality. It is vital for such forward-thinking innovators to stay abreast of all the latest technologies. *Web-Based Services: Concepts, Methodologies, Tools, and Applications* provides readers with comprehensive coverage of some of the latest tools and technologies in the digital industry. The chapters in this multi-volume book describe a diverse range of applications

and methodologies made possible in a world connected by the global network, providing researchers, computer scientists, web developers, and digital experts with the latest knowledge and developments in Internet technologies.

Ambient Assistive Health and Wellness Management in the Heart of the City

7th International Conference on Smart Homes and Health Telematics, ICOST 2009, Tours, France, July 1-3, 2009, Proceedings

Springer Science & Business Media We are living in a world full of innovations for the elderly and people with special needs to use smart assistive technologies and smart homes to more easily perform activities of daily living, continue social participation, engage in entertainment and leisure activities, and to enjoy living independently. These innovations are inspired by new technologies leveraging all aspects of ambient and pervasive intelligence with related theories, technologies, methods, applications, and services on ubiquitous, pervasive, Aml, universal, mobile, embedded, wearable, augmented, invisible, hidden, context-aware, calm, amorphous, sentient, proactive, post PC, everyday, autonomic computing from engineering, business and organizational perspectives. In the field of smart homes and health telematics, significant research is underway to enable ageing and disabled people to use smart assistive technologies and smart homes to foster independent living and to offer them an enhanced quality of life. A smart home is a vision of the future where computers and computing services will be available naturally and unobtrusively anywhere, anytime, and by different means in our daily living, working, learning, business, and information environments. Such a vision opens tremendous opportunities for numerous novel services/applications that are more immersive, more intelligent, and more interactive in both real and cyber spaces.

International Conference on Advancements of Medicine and Health Care through Technology; 5th – 7th June 2014, Cluj-Napoca, Romania

MEDITECH 2014

Springer This volume presents the contributions of the third International Conference on Advancements of Medicine and Health Care through Technology (Meditech 2014), held in Cluj-Napoca, Romania. The papers of this Proceedings volume present new developments in - Health Care Technology, - Medical Devices, Measurement and Instrumentation, - Medical Imaging, Image and Signal Processing, - Modeling and Simulation, - Molecular Bioengineering, - Biomechanics.

Speech and Computer

18th International Conference, SPECOM 2016, Budapest, Hungary, August 23-27, 2016, Proceedings

Springer This book constitutes the proceedings of the 18th International Conference on Speech and Computer, SPECOM 2016, held in Budapest, Hungary, in August 2016. The 85 papers presented in this volume were carefully reviewed and selected from 154 submissions.

EuroPLOP 2009 Proceedings

Lulu.com

Nonlinear Evolution Equations And Infinite Dimensional Dynamical Systems - Proceedings Of The Conference

World Scientific This unique book contains novel and in-depth research regarding economic development in Japan. The authors examine economic development in Japan from both theoretical and empirical perspectives. Using general equilibrium growth accounting and the overlapping generations model, they analyze the relationships between population, agriculture and the economy. The research results are unprecedented and show the effects of increased adult longevity on national savings and the effects of demographic change on the industrial structure; the push-pull effects of technical change in agricultural and non-agricultural sectors and the positive effects of population on technical change and economic development.

IEICE Transactions on Electronics

Mobile Web Information Systems

MobiWIS 2013, International Workshops, Paphos, Cyprus, August 26-28, Revised Selected Papers

Springer This book constitutes the revised selected papers of the workshops of the 10th International Conference on Mobile Web Information, MobiWIS 2013, held in Paphos, Cyprus, in August 2013. The conference hosted two workshops: the First International Workshop on Future Internet of Things and Cloud, FICloud 2013, focusing on the Internet of Things and its relation with cloud computing and the Fourth International Workshop on Service Discovery and Composition in Ubiquitous and Pervasive Environments, SUPE 2013, addressing the issues that characterize automatic service composition in ubiquitous and pervasive computing. The 14 papers presented were carefully reviewed and selected from various submissions.

Information and Communications Security

19th International Conference, ICICS 2017, Beijing, China, December 6-8, 2017, Proceedings

Springer This book constitutes the refereed proceedings of the 19th International Conference on Information and Communications Security, ICICS 2017, held in Beijing, China, in December 2017. The 43 revised full papers and 14 short papers presented were carefully selected from 188 submissions. The papers cover topics such as Formal Analysis and Randomness Test; Signature Scheme and Key Management; Algorithms; Applied Cryptography; Attacks and Attacks Defense; Wireless Sensor Network Security; Security Applications; Malicious Code Defense and Mobile Security; IoT Security; Healthcare and Industrial Control System Security; Privacy Protection; Engineering Issues of Crypto; Cloud and E-commerce Security; Security Protocols; Network Security.

Real-time Signal and Image Processing

Selected Readings

Institute of Electrical & Electronics Engineers(IEEE) [An introduction to intermediate readings in real-time image and signal processing. It covers: issues and challenges; hardware support; algorithms; software languages and systems; and applications and case studies.](#)

Formal Foundations of Reuse and Domain Engineering

11th International Conference on Software Reuse, ICSR 2009, Falls Church, VA, USA, September 27-30, 2009. Proceedings

Springer ICSR is the premier international conference in the field of software reuse. The main goal of ICSR is to present the advances and improvements within the software reuse domain, as well as to promote interaction between researchers and practitioners. The 11th International Conference on Software Reuse (ICSR 2009) was held during September 27-30, 2009 in Falls Church, VA, USA. 2009 was the year that ICSR went back to its roots. The theme was "Formal Foundations of Reuse and Domain Engineering." We explored the theory and formal foundations that underlie current reuse and domain engineering practice and looked at current advancements to get an idea of where the field of reuse was headed. Many of the papers in these proceedings directly reflect that theme. The following workshops were held in conjunction with ICSR 2009: - Second Workshop on Knowledge Reuse (KREUSE 2009) - RESOLVE 2009: Software Verification - the Cornerstone of Reuse - First International Workshop on Software Ecosystems - International Workshop on Software Reuse and Safety (RESAFE 2009) Aside from these workshops and the papers found here, the conference also included 7ve tutorials, eight tool demos, and a doctoral symposium. Links to all of this information and more can be found at the ICSR 11 conference website at icsr11.isase.org.

Software Engineering for Secure Systems: Industrial and Research Perspectives

Industrial and Research Perspectives

IGI Global "This book provides coverage of recent advances in the area of secure software engineering that address the various stages of the development process from requirements to design to testing to implementation"--Provided by publisher.

Innovations in Information Systems for Business Functionality and Operations Management

IGI Global "This book offers the latest research in IS/IT applications related to business and operations management, with contributions in the form of case studies, methodologies, best practices, frameworks, and research"--Provided by publisher.

Digital Media Processing for Multimedia Interactive Services

Proceedings of the 4th European Workshop on Image Analysis for Multimedia Interactive Services : Queen Mary, University of London, 9-11 April 2003

World Scientific This volume contains papers describing state-of-the-art technology for advanced multimedia systems. It presents applications in broadcasting, copyright protection of multimedia content, image indexing and retrieval, and other topics related to computer vision. The proceedings have been selected for coverage in: OCo Index to Scientific & Technical Proceedings- (ISTP- / ISI Proceedings)OCo Index to Scientific & Technical Proceedings (ISTP CDROM version / ISI Proceedings)"

Telematics Communication Technologies and Vehicular Networks: Wireless Architectures and Applications

Wireless Architectures and Applications

IGI Global "This book examines critical issues involved with telematics such as vehicular network infrastructure, vehicular network communication protocols, and vehicular services and applications"--Provided by publisher.

Theta Functions, Bowdoin 1987

American Mathematical Soc. During his long and productive career, Salomon Bochner worked in a variety of different areas of mathematics. This four part set brings together his collected papers, illustrating the range and depth of his mathematical interests. The books are available either individually or as a set.

Frontiers in Statistical Quality Control 13

Springer Nature This contributed book focuses on major aspects of statistical quality control, shares insights into important new developments in the field, and adapts established statistical quality control methods for use in e.g. big data, network analysis and medical applications. The content is divided into two parts, the first of which mainly addresses statistical process control, also known as statistical process monitoring. In turn, the second part explores selected topics in statistical quality control, including measurement uncertainty analysis and data quality. The peer-reviewed contributions gathered here were originally presented at the 13th International Workshop on Intelligent Statistical Quality Control, ISQC 2019, held in Hong Kong on August 12-14, 2019. Taken together, they bridge the gap between theory and practice, making the book of interest to both practitioners and researchers in the field of statistical quality control.

Handbook on Securing Cyber-Physical Critical Infrastructure

Elsevier The worldwide reach of the Internet allows malicious cyber criminals to coordinate and launch attacks on both cyber and cyber-physical infrastructure from anywhere in the world. This purpose of this handbook is to introduce the theoretical foundations and practical solution techniques for securing critical cyber and physical infrastructures as well as their underlying computing and communication architectures and systems. Examples of such infrastructures include utility networks (e.g., electrical power grids), ground transportation systems (automotives, roads, bridges and tunnels), airports and air traffic control systems, wired and wireless communication and sensor networks, systems for storing and distributing water and food supplies, medical and healthcare delivery systems, as well as financial, banking and commercial transaction assets. The handbook focus mostly on the scientific foundations and engineering techniques - while also addressing the proper integration of policies and access control mechanisms, for example, how human-developed policies can be properly enforced by an automated system. Addresses the technical challenges facing design of secure infrastructures by providing examples of problems and solutions from a wide variety of internal and external attack scenarios Includes contributions from leading researchers and practitioners in relevant application areas such as smart power grid, intelligent transportation systems, healthcare industry and so on Loaded with examples of real world problems and pathways to solutions utilizing specific tools and techniques described in detail throughout

Dataquest

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How Chinese Teach Mathematics and Improve Teaching

Routledge How Chinese Teach Mathematics and Improve Teaching builds upon existing studies to examine mathematics classroom instruction in China. It combines contributions from Chinese scholars with commentary from key Western scholars to offer a truly systematic examination of some important and distinctive features of mathematics classroom instruction. Viewing classroom instruction as part of teachers' instructional practices, this book goes beyond teachers' in-classroom instructional practice by also examining Chinese teachers' approaches and practices in developing and improving teaching. Through this unique approach, How Chinese Teach Mathematics and Improve Teaching expands and unpacks the otherwise fragmented knowledge about Chinese practices in developing and carrying out mathematics classroom instruction.

Analytical solution of the MHD free convective unsteady flow over a vertical plate with heat source

GRIN Verlag Scientific Essay from the year 2015 in the subject Mathematics - Applied Mathematics, , language: English, abstract: The unsteady free convection and mass transfer boundary layer flow past an accelerated infinite vertical porous plate by taking into account the viscous dissipation is considered when the plate accelerates in its own plane. The dimensionless momentum, energy and concentration equation in the presence of uniform transverse magnetic field has been solved analytically by perturbation technique. The usual similar transformations are applied to the steady momentum, energy and concentration equations and we obtained a set of ordinary differential equations. Then the solutions of the problem of the ordinary differential equations are obtained by using perturbation technique. The expression for velocity field, temperature field, concentration field, skin friction, Nusselt number (Nu) and Sherwood number (Sh) has been found. The results are discussed in detailed with the help of graphs to observe the effect of different parameters.

Information Services Today

An Introduction

Rowman & Littlefield This book demonstrates the ever-changing landscape of information services today and the need to re-evaluate curriculum, competency training, professional development, and lifelong learning in order to stay abreast of current trends and issues, and more significantly, remain competent to address the changing user needs of the information community.

Wireless Sensor and Mobile Ad-Hoc Networks

Vehicular and Space Applications

Springer Wireless sensor Networks: Vehicle and Space Applications describes the practical perspectives in using wireless sensor networks (WSN) to develop real world applications that can be used for space exploration. These applications include sensor interfaces, remote wireless vehicles, space crew health monitoring and instrumentation. The material discusses how applications of WSN originally developed for space travel and exploration are being applied and used in multiple real world applications, allowing for the development of smart systems that have characteristics such as self healing, self diagnosis, and emergency healthcare notification.

Cognitive Infocommunications (CogInfoCom)

Springer This book describes the theoretical foundations of cognitive infocommunications (CogInfoCom), and provides a survey on state-of-the-art solutions and applications within the field. The book covers aspects of cognitive infocommunications in research fields such as affective computing, BCI, future internet, HCI, HRI, sensory substitution, and virtual/augmented interactions, and also introduces newly proposed paradigms and initiatives under the field, including CogInfoCom channels, speechability and socio-cognitive ICT. The book focuses on describing the merging between humans and information and communications technology (ICT) at the level of cognitive capabilities with an approach towards developing future cognitive ICT.

Network World

For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce.

Emerging Technologies for Disaster Resilience

Practical Cases and Theories

Springer Nature Technological advances have helped to enhance disaster resilience through better risk reduction, response, mitigation, rehabilitation and reconstruction. In former times, it was local and traditional knowledge that was mainly relied upon for disaster risk reduction. Much of this local knowledge is still valid in today's world, even though possibly in different forms and contexts, and local knowledge remains a shared part of life within the communities. In contrast, with the advent of science and technology, scientists and engineers have become owners of advanced technologies, which have contributed significantly to reducing disaster risks across the globe. This book analyses emerging technologies and their effects in enhancing disaster resilience. It also evaluates the gaps, challenges, capacities required and the way forward for future disaster management. A wide variety of technologies are addressed, focusing specifically on new technologies such as cyber physical systems, geotechnology, drone, and virtual reality (VR)/ augmented reality (AR). Other sets of emerging advanced technologies including an early warning system and a decision support system are also reported on. Moreover, the book provides a variety of discussions regarding information management, communication, and community resilience at the time of a disaster. This book's coverage of different aspects of new technologies makes it a valuable resource for students, researchers, academics, policymakers, and development practitioners.

Computer Engineering: Concepts, Methodologies, Tools and Applications

Concepts, Methodologies, Tools and Applications

IGI Global "This reference is a broad, multi-volume collection of the best recent works published under the umbrella of computer engineering, including perspectives on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field"--Provided by publisher.

Cumulated Index Medicus

Electronic Design