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The Sustainable Renovation of Buildings and Neighbourhoods Critical Infrastructure System Security and Resiliency Architecture & Sustainable Development (vol.2) Krylov Subspace Iterations for the Calculation of K-Eigenvalues with Sn Transport Codes Thermal Design and Thermal Behaviour of Radio Telescopes and their Enclosures Non-Conventional Materials and Technologies Excited State Structure and Dynamics of Polyenes and Bacteriorhodop- Sin from Resonance Raman Intensities Calculate the Orbit of Mars! ARPACK Users' Guide Low Energy Architecture and Low Carbon Cities NASA Technical Note The Science of Homeland Security Proceedings of the 1st International Conference in Safety and Crisis Management in the Construction, Tourism and SME Sectors Planetary Systems Microprocessor 1 Standardization Complex, Intelligent, and Software Intensive Systems NASA technical note The Dense Interstellar Medium in Galaxies The Seventh Sanctuary Proceedings of the Workshop on Materials Science and Physics of Non-Conventional Energy Sources Journal of Nuclear Science and Technology The Origin of Stars and Planetary Systems Image and Graphics Research in Computational Molecular Biology Modeling, Systems Engineering, and Project Management for Astronomy II Magazine of Standards Industrial Standardization First Light in the Universe ESSCIRC '97 The 24th Annual International Symposium on Computer Architecture, June 2-4, 1997, Denver, Colorado MSU International Development Papers Galaxies in the Local Volume A Computer Program for the Calculation of Three-dimensional Transonic Nacelle/inlet Flowfields Developments in Robotics, 1983 Handbook of Linear Algebra High Performance Embedded Computing Handbook Early Encounters between East Asia and Europe Intelligent Technologies and Applications Computer Program for Determining Effects of Chemical Kinetics on Exhaust-nozzle Performance

The Sustainable Renovation of Buildings and Neighborhoods is a collection of papers presented at the International Congress of Sustainable Construction and Eco-efficient Solutions. This event has established itself as a forum for meeting academics from around the word, researchers and professionals of the construction sector, in which environmental information is shared with a multidisciplinary context, and which involves participants from different areas of the construction process. The congress brings together development proposals through a shared vision of environmental sustainability and presents alternative solutions to problems through technical presentations and trainings, in order to minimize the environmental impact caused by the construction sector. This monograph celebrates the event’s second international edition and its fourth national edition. The volume contains selected articles written by the participants. Readers will find information about interesting, new developments and concepts on • Energy retrofitting in older buildings • Tools to determine and measure environmental impact and sustainability indicators • Economic / cost based revaluation of buildings through the viability of eco-efficient solutions • Reduction of the consumption of material and energy resources and in CO2 emissions • Sustainability research based on the renovation of urban areas. The studies in this book provide real examples from different countries (Argentina and Spain, for example). The Sustainable Renovation of Buildings and Neighborhoods is a useful reference for researchers and professional architects involved in sustainable development, environmental rehabilitation and the construction industry. This three-volume set LNCS 11901, 11902, and 11903 constitutes the refereed conference proceedings of the 10thth International Conference on Image and Graphics, ICIG 2019, held in Beijing, China, in August 2019. The 183 full papers presented were selected from 384 submissions and focus on advances of theory, techniques and algorithms as well as innovative technologies of image, video and graphics processing and fostering innovation, entrepreneurship, and networking. While inquiries into early encounters between East Asia and the West have traditionally focused on successful interactions, this collection inquires into the many forms of failure, experienced on all sides, in the period before 1850. Countering a tendency in scholarship to overlook unsuccessful encounters, it starts from the assumption that failures can prove highly illuminating and provide valuable insights into both the specific shapes and limitations of East Asian and Western imaginations of the Other, as well as of the nature of East-West interaction. Interdisciplinary in outlook, this collection brings together the perspectives of sinology, Japanese and Korean studies, historical studies, literary studies, art history, religious studies, and performance studies. The subjects discussed are manifold and range from missionary accounts, travel reports, letters and trade documents to fictional texts as well as material objects (such as tea, chinaware, or nautical instruments) exchanged between East and West. In order to avoid a Eurocentric perspective, the collection balances approaches from the fields of English literature, Spanish studies, Neo-Latin studies, and art history with those of sinology, Japanese studies, and Korean studies. It includes an introduction mapping out the field of failures in early modern encounters between East Asia and Europe, as well as a theoretically minded essay on the lessons of failure and the ethics of cross-cultural understanding. This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries. The general aim here is to use renewable and non-polluting materials in ways that offer a high degree of sustainability and preserve the remaining natural resources for future generations. Keywords: Biobased Materials, Renewable Materials, Non-polluting Materials, Sustainability, Wood, Agricultural Waste, Grasses, Natural Plant Fibers, Lignocellulosic Materials, Carbohydrates, Sugars, Lignin, Cellulose, Vegetable Oils, Proteins, Bamboo, Vegetable Fibers, Soil Composites, Recycled Materials, Rice Husk Ash, Sugar Cane Ash, Fiber-reinforced Concrete, Post-disaster Reconstruction, Guadua Fibers, Prefabricated Bamboo Guadua Panels, Multi-Level Bamboo Structures, Alkaline Activated Cements, Polymer Residues Reinforced with Glass Fiber, Composites Reinforced with Vegetal Fibers, Sisal Fibers, Bamboo Arch Structure, Adobe Reinforced with Wheat Fibers, Fiber Reinforced Microconcrete, Cements with High Coal Waste Contents, Natural Composites, Geopolymer Concretes. The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts, applications, and computational software packages in an easy-to-use handbook format. The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research. The book features an accessibl This volume contains the papers presented at the 9th Annual International Conference on Research in Computational Molecular Biology (RECOMB 2005), which was held in Cambridge, Massachusetts, on May 14–18, 2005. The RECOMB conference series was started in 1997 by Sorin Istrail, Pavel Pevzner and Michael Waterman. The list of previous meetings is shown below in the s- tion “Previous RECOMB Meetings. ” RECOMB 2005 was hosted by the Broad Institute of MIT and Harvard, and Boston University’s Center for Advanced - nomic Technology, and was excellently organized by the Organizing Committee Co-chairs Jill Mesirov and Simon Kasif. This year, 217 papers were submitted, of which the Program Committee - lected 39 for presentation at the meeting and inclusion in this proceedings. Each submission was refereed by at least three members of the Program Committee. After the completion of the referees’ reports, an extensive Web-based discussion took place for making decisions. From RECOMB 2005, the Steering Committee decided to publish the proceedings as a volume of Lecture Notes in Bioinf- matics (LNBI) for which the founders of RECOMB are also the editors. The prominent volume number LNBI 3500 was assigned to this proceedings. The RECOMB conference series is closely associated with the Journal of Compu- tional Biology which traditionally publishes special issues devoted to presenting full versions of selected conference papers. The RECOMB Program Committee consistedof42members,aslistedonaseparatepage. Iwouldliketothank the RECOMB 2005 Program Committee members for their dedication and hard work. This book is a guide to understanding and using the software package ARPACK to solve large algebraic eigenvalue problems. The software described is based on the implicitly restarted Arnoldi method, which has been heralded as one of the three most important advances in large scale eigenanalysis in the past ten years. The book explains the acquisition, installation, capabilities, and detailed use of the software for computing a desired subset of the eigenvalues and eigenvectors of large (sparse) standard or generalized eigenproblems. It also discusses the underlying theory and algorithmic background at a level that is accessible

to the general practitioner. A few years after the publication of The Physics of Star Formation and Early Stellar Evolution, we received a request from the publisher for an up dated second edition of this popular reference book. As originally intended, the volume had proved to be a useful "text" book for graduate astronomy courses and seminars which dealt with topics related to stellar origins. The book was based on a series of lectures delivered by a distinguished group of leading researchers at a NATO Advanced Study Institute (ASI) held in May 1990 on the island of Crete, Greece. The primary goal of the ASI was in fact to produce a book which "would simultaneously provide a broad and systematic overview of, as well as a rigorous introduction to, the fun damental physics and astronomy at the heart of modern research in star formation and early stellar evolution. " However, by 1995 concern had arisen among those who used the text as a reference for graduate seminars and courses that the book would need to be updated to stay abreast of the discoveries and progress in this rapidly evolving field. After some discussion we concluded that a new edition of the book was warranted and that the goal of producing a new edition would be best accomplished by organizing a second ASI in Crete to review the progress in star formation research. Security protections for critical infrastructure nodes are intended to minimize the risks resulting from an initiating event, whether it is an intentional malevolent act or a natural hazard. With an emphasis on protecting an infrastructure's ability to perform its mission or function, Critical Infrastructure System Security and Resiliency presents a practical methodology for developing an effective protection system that can either prevent undesired events or mitigate the consequences of such events. Developed at Sandia National Labs, the authors' analytical approach and methodology enables decision-makers and security experts to perform and utilize risk assessments in a manner that extends beyond the theoretical to practical application. These protocols leverage expertise in modeling dependencies—optimizing system resiliency for effective physical protection system design and consequence mitigation. The book begins by focusing on the design of protection strategies to enhance the robustness of the infrastructure components. The authors present risk assessment tools and necessary metrics to offer guidance to decision-makers in applying sometimes limited resources to reduce risk and ensure operational resiliency. Our critical infrastructure is vast and made up of many component parts. In many cases, it may not be practical or affordable to secure every infrastructure node. For years, experts—as a part of the risk assessment process—have tried to better identify and distinguish higher from lower risks through risk segmentation. In the second section of the book, the authors present examples to distinguish between high and low risks and corresponding protection measures. In some cases, protection measures do not prevent undesired events from occurring. In others, protection of all infrastructure components is not feasible. As such, this section describes how to evaluate and design resilience in these unique scenarios to manage costs while most effectively ensuring infrastructure system protection. With insight from the authors' decades of experience, this book provides a high-level, practical analytical framework that public and private sector owners and operators of critical infrastructure can use to better understand and evaluate infrastructure security strategies and policies. Strengthening the entire homeland security enterprise, the book presents a significant contribution to the science of critical infrastructure protection and resilience. This book constitutes the refereed proceedings of the First International Conference on Intelligent Technologies and Applications, INTAP 2018, held in Bahawalpur, Pakistan, in October 2018. The 68 revised full papers and 6 revised short papers presented were carefully reviewed and selected from 251 submissions. The papers of this volume are organized in topical sections on AI and health; sentiment analysis; intelligent applications; social media analytics; business intelligence;Natural Language Processing; information extraction; machine learning; smart systems; semantic web; decision support systems; image analysis; automated software engineering. Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature. Includes English language abstracts from Japanese articles in Nihon Genshiryoku Gakkai Shi (Journal of the Atomic Energy Society of Japan). This book provides a platform of scientific interaction between the three challenging and closely linked areas of ICT-enabled-application research and development: software intensive systems, complex systems and intelligent systems. Software intensive systems strongly interact with other systems, sensors, actuators, devices, other software systems and users. More and more domains are using software intensive systems, e.g. automotive and telecommunication systems, embedded systems in general, industrial automation systems and business applications. Moreover, web services offer a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than their components. Complex systems are characterized by the changing environments in which they interact. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which are increasingly characterized by their use of ontologies and their logical foundations, offer impulses for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences are vital for the future development and innovation of software intensive and complex systems. Radio telescopes as well as communication antennas operate under the influence of gravity, temperature and wind. Among those, temperature influences may degrade the performance of a radio telescope through transient changes of the focus, pointing, path length and sensitivity, often in an unpredictable way. Thermal Design and Thermal Behaviour of Radio Telescopes and their Enclosures reviews the design and construction principles of radio telescopes in view of thermal aspects and heat transfer with the variable thermal environment; it explains supporting thermal model calculations and the application and efficiency of thermal protection and temperature control; it presents many measurements illustrating the thermal behaviour of telescopes in the environment of their observatory sites. The book benefits scientists and radio/communication engineers, telescope designers and construction firms as well as telescope operators, observatory staff, but also the observing astronomer who is directly confronted with the thermal behaviour of a telescope. We apply the Implicitly Restarted Arnoldi Method (IRAM), a Krylov subspace iterative method, to the calculation of k-eigenvalues for criticality problems. We show that the method can be implemented with only modest changes to existing power iteration schemes in an SN transport code. Numerical results on three dimensional unstructured tetrahedral meshes are shown. Although we only compare the IRAM to unaccelerated power iteration, the results indicate that the IRAM is a potentially efficient and powerful technique, especially for problems with dominance ratios approaching unity. Key Words: criticality eigenvalues, Implicitly Restarted Arnoldi Method (IRAM), deterministic transport methods. This book shows readers how to calculate the orbit of Mars, based on their own observations and using observations made by the author. The historical, observational, and analytical aspects of the project to measure the orbit of Mars are all combined in this one book! Determining the orbit of Mars is particularly important, as originally solving this problem required the founding of modern science. Clark discusses how people came to believe in the Newtonian model of the Solar System, works through the mathematical basis for the theory of gravity, and shows how Newton ruled out the possibility of alternative theories. Readers also learn how it became possible to accurately measure the positions of Mars from a moving, spinning platform—the Earth. This mid-level observational challenge is well within reach of most serious amateur astronomers. For the observations, only a telescope with auto-guiding capability and the ability to mount a digital single lens reflex (DSLR) camera is required. For the calculations, it is assumed that the reader has a science, engineering, or mathematics background and is familiar with calculus, vectors, and trigonometry. Over the past several decades, applications permeated by advances in digital signal processing have undergone unprecedented growth in capabilities. The editors and authors of High Performance Embedded Computing Handbook: A Systems Perspective have been significant contributors to this field, and the principles and techniques presented in the handbook are reinforced by examples drawn from their work. The chapters cover system components found in today's HPEC systems by addressing design trade-offs, implementation options, and techniques of the trade, then solidifying the concepts with specific HPEC system examples. This approach provides a more valuable learning tool, Because readers learn about these subject areas through factual implementation cases drawn from the contributing authors' own experiences. Discussions include: Key subsystems and components Computational characteristics of high performance embedded algorithms and applications Front-end real-time processor technologies such as analog-to-digital conversion, application-specific integrated circuits, field programmable gate arrays, and intellectual property–based design Programmable HPEC systems technology, including interconnection fabrics, parallel and distributed processing, performance metrics and software architecture, and automatic code parallelization and optimization Examples of complex HPEC systems representative of actual prototype developments Application examples, including radar, communications, electro-optical, and sonar applications The handbook is organized around a canonical framework that helps readers navigate through the chapters,

and it concludes with a discussion of future trends in HPEC systems. The material is covered at a level suitable for practicing engineers and HPEC computational practitioners and is easily adaptable to their own implementation requirements. Within days of his attempted murder, David Rosen, an American archaeologist, learns that his parents and four of his colleagues have been killed. Convinced that the deaths are linked, Rosen and Leyla, the beautiful Palestinian guide who becomes his lover, are quickly involved in trying to stop a scheme intended to bring about the destruction of Israel and the rebirth of the Nazi Reich. This timely book presents an overview of the galaxies within the Local Volume, including the Local Group and our closest neighbours, the Andromeda Galaxy and the Magellanic Clouds. Presented here are the latest results from radio, infrared and optical surveys as well as detailed multi-wavelength studies of individual galaxies. The book aims to provide a vibrant forum for presentations and discussions across a broad range of astrophysical topics. The built environment is at a turning point. With projected trends in population growth and urbanization, global demand for new floor area is expected to rise sharply. This will put unprecedented pressure on the availability of natural resources and incur greenhouse gas emissions and energy demand. Such environmental stressors risk driving the world away from the UN Sustainable Development Goals, but equally represent an opportunity for just sustainability transitions. The contents of this book aim to address some of these grand challenges from a multi-disciplinary perspective. Low-energy architecture, low-carbon cities and the often-forgotten sustainability of refugee settlements are some of the themes dealt with by the authors. The Cologne-Bonn-Zermatt symposium is a well established series of conferences, occurring on a 5-year cycle, on the dense interstellar medium and related topics. The main results constitute valuable proceedings that offer everyone working in this field an authoritative and comprehensive source of reference. Since its commercialization in 1971, the microprocessor, a modern and integrated form of the central processing unit, has continuously broken records in terms of its integrated functions, computing power, low costs and energy saving status. Today, it is present in almost all electronic devices. Sound knowledge of its internal mechanisms and programming is essential for electronics and computer engineers to understand and master computer operations and advanced programming concepts. This book in five volumes focuses more particularly on the first two generations of microprocessors, those that handle 4- and 8- bit integers. Microprocessor 1 – the first of five volumes – presents the computation function, recalls the memory function and clarifies the concepts of computational models and architecture. A comprehensive approach is used, with examples drawn from current and past technologies that illustrate theoretical concepts, making them accessible. Homeland security has occupied the news since 9/11. Still, much of the research about security risks, types of threats, and other vital data remains unsubstantiated. Using the tools that verify scientific finding, the editors have moved the issues of homeland security to a level above rhetoric and hearsay. Authors, in this volume, review the current literature, critique current information, and provide suggestions for future research in several areas. Topics in this volume include: Risk and Crisis Communication Strategies in Response to Bioterrorism; Security Issues in Water Infrastructure; Fundamental Causes of International Terrorism; Understanding, Measuring, Modeling, and Management of Risks to Homeland Security; Biosensors for Detection of Nerve Agents and Agricultural Pesticides; Detection of Bacterial Pathogens and Toxins; Anti-crop bioterrorism; and Medical Biosurveillance. This volume is a must for all who are involved with issues of homeland security from planners to administrators to researchers. The editors of this volume are members of the Purdue Homeland Security Institute, Purdue University, West Lafayette, Indiana except Daniel R. Dolk who is at the Naval Postgraduate School, Monterey, California.

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