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Intel Xeon Phi Coprocessor Architecture and Tools

Intel® Xeon Phi™ Coprocessor Architecture and Tools: The Guide for Application Developers provides developers a comprehensive introduction and in-depth look at the Intel Xeon Phi coprocessor architecture and the corresponding parallel data structure tools and algorithms used in the various technical computing applications for which it is suitable. It also examines the source code-level optimizations that can be performed to exploit the powerful features of the processor. Xeon Phi is at the heart of world's fastest commercial supercomputer, which thanks to the massively parallel computing capabilities of Intel Xeon Phi processors coupled with Xeon Phi coprocessors attained 33.86 teraflops of benchmark performance in 2013. Extracting such stellar performance in real-world applications requires a sophisticated understanding of the complex interaction among hardware components, Xeon Phi cores, and the applications running on them. In this book, Rezaur Rahman, an Intel leader in the development of the Xeon Phi coprocessor and the optimization of its applications, presents and details all the features of Xeon Phi core design that are relevant to the practice of application developers, such as its vector units, hardware multithreading, cache hierarchy, and host-to-coprocessor communication channels. Building on this foundation, he shows developers how to solve real-world technical computing problems by selecting, deploying, and optimizing the available algorithms and data structure alternatives matching Xeon Phi's hardware characteristics. From Rahman's practical descriptions and extensive code examples, the reader will gain a working knowledge of the Xeon Phi vector instruction set and the Xeon Phi microarchitecture whereby cores execute 512-bit instruction streams in parallel.

Emerging Therapies in Neurorehabilitation II

This book reports on the latest technological and clinical advances in the field of

neurorehabilitation. It is, however, much more than a conventional survey of the state-of-the-art in neurorehabilitation technologies and therapies. It was written on the basis of a week of lively discussions between PhD students and leading research experts during the Summer School on Neurorehabilitation (SSNR2014), held September 15-19 in Baiona, Spain. Its unconventional format makes it a perfect guide for all PhD students, researchers and professionals interested in gaining a multidisciplinary perspective on current and future neurorehabilitation scenarios. The book addresses various aspects of neurorehabilitation research and practice, including a selection of common impairments affecting CNS function, such as stroke and spinal cord injury, as well as cutting-edge rehabilitation and diagnostics technologies, including robotics, neuroprosthetics, brain-machine interfaces and neuromodulation.

International Catalogue of Scientific Literature [1901-14].

ABI Professional Publications is pleased to offer this professional reference guide to living well after stroke, edited by Paul R. Rao, Ph. D., Mark N. Ozer, M. D., and John E. Toerge D. O. Managing Stroke provides a comprehensive overview on dealing with the medical, psychological, financial and many other challenges of living with stroke. Written by fifteen authorities in the field, Managing Stroke distills and summarizes the wealth of cutting-edge knowledge on stroke and rehabilitation developed over the past decade. It is part of a series on rehabilitation, including the highly-regarded Managing Post Polio: A Guide to Living Well With Post-Polio Syndrome, that deals with rehabilitation and quality-of-life issues for persons who find themselves with major health issues affecting their lives. It is produced in conjunction with the National Rehabilitation Hospital. The rehabilitation information is supplemented with personal stories of individuals who provide eloquent and sometimes poignant-always heroic-testimony to the many ways people have prevailed in the face of ongoing disability. The book features a state-of-the-art consumer guide in selecting a rehabilitation program, a glossary of stroke related terms, and comprehensive listing of stroke related resources. Managing Stroke was written by healthcare pro-fessionals who work with and counsel people with stroke as a guide to living well for people who have had a stroke, their families, friends, and loved ones, as well as professionals who need an up-to-date and quick reference.

Managing Stroke

Living with Stroke

After a Stroke

This volume consists of papers presented at the International Colloquium on Buckling of Shell Structures, on Land, in the Sea and in the Air, Lyon, France, 17-19 September 1991.

Japanese Technical Periodical Index

Improving database performance requires an equal mix of understanding theoretical concepts and working through hands-on examples. You'll find both here. Many of the examples given will be immediately useful for monitoring and improving your PostgreSQL deployments, providing insight into hard-to-obtain information about your database. This book is aimed at intermediate to advanced database administrators using or planning to use PostgreSQL. Portions will also interest systems administrators looking to build or monitor a PostgreSQL installation, as well as developers interested in advanced database internals that impact application design.

Buckling of Shell Structures, on Land, in the Sea and in the Air

Biocatalysts are increasingly used by chemists engaged in finechemical synthesis within both industry and academia. Today, thereexists a huge choice of high-tech enzymes and whole cellbiocatalysts, which add enormously to the repertoire of syntheticpossibilities. Practical Methods for Biocatalysis and Biotransformations² is a "how-to" guide that focuses on the practicalapplications of enzymes and strains of microorganisms that arereadily obtained or derived from culture collections. The sourcesof starting materials and reagents, hints, tips and safety advice(where appropriate) are given to ensure, as far as possible, thatthe procedures are reproducible. Comparisons to alternativemethodology are given and relevant references to the primaryliterature are cited. This second volume - which can be usedon its own or in combination with the first volume - concentrateson new applications and new enzyme families reported since thefirst volume. Contents include: introduction to recent developments and future needs inbiocatalysts and synthetic biology in industry reductive amination enoate reductases for reduction of electron deficientalkenes industrial carbonyl reduction regio- and stereo-selective hydroxylation oxidation of alcohols selective oxidation industrial hydrolases and related enzymes transferases for alkylation, glycosylation andphosphorylation C-C bond formation and decarboxylation halogenation/dehalogenation/heteroatom oxidation tandem and sequential multi-enzymatic syntheses Practical Methods for Biocatalysis and Biotransformations² is an essential collection of biocatalytic methods forchemical synthesis which will find a place on the bookshelves ofsynthetic organic chemists, pharmaceutical chemists, and processR&D chemists in industry and academia.

Colours

Answers common questions about the causes and effects of strokes, and discusses ways to reduce the risk of stroke, restore mobility after a stroke, and find home health care services for those recovering from a stroke

Presenting Medical Statistics from Proposal to Publication

This textbook addresses the elementary concepts of flight mechanics, everything from the equations of motion to aircraft performance.

Atlas of Rumen Microbiology

Houses by Mail

An essential resource for all stroke survivors and their families and caregivers With more than 300 tips, this useful guide offers tried and true methods for coping with the aftermath of a stroke. Written by a stroke survivor and nurse, *After a Stroke* provides ideas, techniques, and exercises to help: accomplish daily living routines promote healing and recovery make the home safe and accessible foster independence and build self-esteem turn stroke deficits into assets *After a Stroke* contains everything families and fellow stroke survivors need to know to live a full life post-stroke.

A Teachers' Manual to Accompany the Oral Language Program

Leverage the power of PostgreSQL 10 to design, administer and maintain a high-performance database solution Key Features Obtain optimal PostgreSQL 10 database performance, ranging from initial design to routine maintenance Fine tune the performance of your queries and avoid the common pitfalls that can slow your system down Contains tips and tricks on scaling successful database installations, and ensuring a highly available PostgreSQL solution Book Description PostgreSQL database servers have a common set of problems that they encounter as their usage gets heavier and requirements get more demanding. Peek into the future of your PostgreSQL 10 database's problems today. Know the warning signs to look for and how to avoid the most common issues before they even happen. Surprisingly, most PostgreSQL database applications evolve in the same way--choose the right hardware, tune the operating system and server memory use, optimize queries against the database and CPUs with the right indexes, and monitor every layer, from hardware to queries, using tools from inside and outside PostgreSQL. Also, using monitoring insight, PostgreSQL database applications continuously rework the design and configuration. On reaching the limits of a single server, they break things up; connection pooling, caching, partitioning, replication, and parallel queries can all help handle increasing database workloads. By the end of this book, you will have all the knowledge you need to design, run, and manage your PostgreSQL solution while ensuring high performance and high availability What you will learn Learn best practices for scaling PostgreSQL 10 installations Discover the best hardware for developing high-performance PostgreSQL applications Benchmark your whole system - from hardware to application Learn by real examples how server parameters impact performance Discover PostgreSQL 10 features for partitioning and parallel query Monitor your server, both inside and outside the database Design and implement a good replication system on PostgreSQL 10 Who this book is for This book is designed for database administrators and PostgreSQL architects who already use or plan to exploit the features of PostgreSQL 10 to design and maintain a high-performance PostgreSQL database. A working knowledge of SQL, and some experience with PostgreSQL will be helpful in getting the most out of this book.

Phosphate Minerals

PostgreSQL 10 High Performance

The best-selling English Pronunciation in Use is a comprehensive reference and practice book suitable for self-study or classroom work. Sixty easy-to-use units cover all aspects of pronunciation, including individual sounds, word stress, connected speech and intonation. The versions with audio CDs include audio material in a range of accents, supporting each unit. An additional reference section offers a glossary of specialized terms, help with the pronunciation of numbers and geographical names and fun exercises on phonemic symbols and minimal pairs. The version with CD-ROM provides a wide variety of additional interactive activities to reinforce the pronunciation covered in the book, as well as tests, progress checks, games and animated diagrams of the mouth showing learners how to produce individual sounds. Learners can also record themselves and compare their pronunciation with one of the many models provided.

Emerging Therapies in Neurorehabilitation

This book reports on the latest technological and clinical advances in the field of neurorehabilitation. It is, however, much more than a conventional survey of the state-of-the-art in neurorehabilitation technologies and therapies. It was formed on the basis of a week of lively discussions between curious PhD students and leading research experts during the summer school on neurorehabilitation (SSNR2012), September 16-21 in Nuévalos, Zaragoza (Spain). Its unconventional format makes it a perfect guide for all PhD students, researchers and professionals interested in gaining a multidisciplinary perspective on current and future neurorehabilitation scenarios. The book covers various aspects of neurorehabilitation research and practice, organized into different parts. The first part discusses a selection of common impairments affecting brain function, such as stroke, cerebral palsy and Parkinson's disease; the second deals with both spinal cord and brain plasticity. The third part covers the most recent rehabilitation and diagnostics technologies, including robotics, neuroprostheses, brain-machine interfaces and electromyography systems. Practical examples and case studies related to the application of some of the latest techniques in realistic clinical scenarios are covered in the fourth part.

Practical Methods for Biocatalysis and Biotransformations 2

A History of Australian Computing

Great Gals

Suddenly, and often without warning, a life can change forever as a result of a stroke. Strokes occur when a part of the brain stops working due to a blocked or burst blood vessel. Although strokes are a leading cause of death and disability, timely recognition of the signs and symptoms can help prevent the worst effects. In *Stroke*, Dr. Vladimir Hachinski presents readers with a thoughtful, accessible look at North America's leading cause of neurological disability. Topics include: What is a stroke and how to prevent one Hardening of the arteries Signs and symptoms Tests and treatments Drugs, surgical options, and alternative options

Featuring case studies, diagrams and charts, Stroke is a timely and informative guide to a serious condition. BIO:VLADIMIR HACHINSKI. MD, FRCPC, MSC (DME), DSC (MED), is Chief of the Department of Clinical Neurological Sciences at the London Health Sciences Centre and Professor of Medicine at the University of Western Ontario.

Pediatric Respiratory Medicine

Forthcoming Books

Volume 1 of the Textbook of Neural Repair and Rehabilitation covers the basic sciences relevant to recovery of function following injury to the nervous system.

Stroke!

This user-friendly text presents current scientific information, diagnostic approaches, and management strategies for the care of children with acute and chronic respiratory diseases. A consistent chapter format enables rapid and effortless location of the most current protocols on manifestations, etiologies, triggers, approaches to treatment, complications, and preventative strategies. Includes guidance on differential diagnosis to help determine which disease or condition the patient may have. Uses extensive color-coded algorithms to facilitate quick diagnosis, management, and treatment decisions. Provides the latest scientific information and diagnostic and management strategies for the care of children with respiratory illnesses. Presents cutting-edge coverage with new information on the biology of, and the influences on, the respiratory system during childhood, as well as the diagnosis and management of both common (ie, wheezing infant, cystic fibrosis, tuberculosis) and.

Mechanics of Flight

A comprehensive narrative history of the Australian computer industry, from the earliest analogue machines through to the present day.

Stroke

Covering Great Gals of the past and present as well as quotes, prompts, and ideas to help women create their own great life, "Great Gals" is a daily planner, a diary, a depository for goals, dreams, experiments, and ideas.

English Pronunciation in Use Advanced 5 Audio CDs

Features tons of advice for recovery and rehabilitation Get the latest on the symptoms, diagnosis, and treatment of stroke Have questions and concerns about strokes? This reassuring guide provides invaluable information for stroke victims and their loved ones, from what a stroke is and what it feels like to proven treatments and therapies. You'll see how to implement a plan for preventing stroke, treat the lingering effects of stroke, and maximize home caregiver

effectiveness while minimizing fatigue. Discover how to: Understand what causes different types of stroke Recognize warning signs Get the most out of doctors and hospitals Speed recovery with the best treatments Help prevent future strokes Decide the best living arrangements after stroke

American Houses

It was the American Dream by Mail Order --Smithsonian Americans have ordered from Sears, Roebuck just about everything they have needed for their homes for 100 years--but from 1908 to 1940, some 100,000 people also purchased their houses from this mail-order wizard. Sears ready-to-assemble houses were ordered by mail and shipped by rail wherever a boxcar or two could pull in to unload the meticulously pre-cut lumber and all the materials needed to build an exceptionally sturdy and well-designed house. From Philadelphia, Pa., to Coldwater, Kans., and Cowley, Wyo., Sears put its guarantee on quality bungalows, colonials and Cape Cods, all with the latest modern conveniences--such as indoor plumbing. Houses by Mail tells the story of these pre-cut houses and provides for the first time an incomparable guide to identifying Sears houses across the country. Arranged for easy identification in 15 sections by roof type, the book features nearly 450 house models with more than 800 illustrations, including drawings of the houses and floor plans. Because the Sears houses were built to last, thousands remain today to be discovered and restored. Houses by Mail shows how to return them to their original charm while it documents a highly successful business enterprise that embodied the spirit and domestic design of its time. "After decades of obscurity, Sears houses have become chic." --Wall Street Journal "These were . spacious, solidly built homes." --Parade "Don't be surprised if your own cozy bungalow turns up [in the book]."--Philadelphia Inquirer "A nostalgic and informative look at the tastes of Americans in the years before World War II."--Publishers Weekly "The bible to researchers of Sears' ready-cut homes."--Saturday Evening Post

Life with Letters--as They Turned Photogenic

Expanded and revised to cover recent developments, this text should tell you what you need to know to become a better listener and buyer of quality high-fidelity components. New sections include: super audio CD; high-resolution audio on DVD; and single-ended amplifiers.

Textbook of Neural Repair and Rehabilitation

This massive compendium contains over 2,000 line drawings, and clear, concise definitions for over 5,000 important terms relating to the architectural achievements of a great variety of world cultures, ancient to modern.

A Vision Splendid

Penned by a rehabilitation physician who has worked with thousands of stroke patients and families, this reference provides simple answers to the many questions that surround strokes and stroke rehabilitation. Free of technical medical jargon, this resource addresses topics such as the anatomy of a stroke,

impairments and complications associated with strokes, and preventing and reducing the risk of them. A gallery of photographs that show and explain the latest methodologies in rehabilitation equipment is also included.

Flint Suburban, Michigan, Directory

Increase the power of your spells and rituals with these powerful potions from a variety of Western Traditions, including hard-to-find classic formulas with references to their origins provided wherever possible. This book is more than just a collection of over 300 formulas, but a guide to using beneficial astrological timing, incantations and other methods to super-charge your potions. It is an excellent reference for augmenting potions, making substitutions for ingredients or creating your own formulas for a wide variety of purposes. All of the formulas given here employ natural ingredients with the exception of old traditional potions from past centuries and those that call for food dyes as colorants. The author has, also, tried to choose ingredients or suggest substitutions in such cases that are safer and may be readily obtained. Why make your own potions when you can buy them off the shelf ready-made? When you purchase a ready-made potion, you have no way of knowing what's in it or under what conditions it was. On the other hand, you have a distinct advantage when you make your own formulas because you can ensure that they are made properly and you can customize them to your or your client's specific needs. Furthermore, many of the powerful formulas in this book cannot be found anywhere else. A long list of herbs and their attributes is provided so you can ensure that your potion has the most suitable ingredients for your particular purpose.

The Complete Guide to High-end Audio

Mass Customization

American Houses is a historical guide to the architecture of the American home. While other architectural field guides show only façades, this book includes floor plans, showing how the form of a house arises from its function. Photographs and drawings of exteriors illustrate the significant field marks of each style and help pinpoint the key elements that can identify a house even when it has been remodeled beyond recognition. Beautifully illustrated, clearly written, and impeccably researched, American Houses is an essential reference for anyone interested in the history of American residential architecture.

Stroke For Dummies

The Buildings of Main Street is the primary resource for interpreting commercial architectural style. Richard Longstreth, a renowned and respected author in the field of historic preservation, presents a useful survey of commercial architecture in urban America. He has developed a typology of architectural classification for commercial application in American towns across the United States. Likely to be enjoyed by both students and members of the general public seeking an introduction to commercial architecture, The Buildings of Main Street makes a

significant and lasting contribution to American architectural history.

Illustrated Dictionary of Historic Architecture

The literature on the geology, chemistry, and biochemistry of phosphorus generally takes its mineralogy for granted. The incidental information on phosphate minerals given in these texts is often obsolescent and inaccurate. The few mineralogical texts that have dealt comprehensively with the phosphate minerals have now become outdated, and typically present the essential information in a manner unsuitable for nongeological readers. This volume is intended as a ready reference for workers who require good basic information on phosphate minerals or their synthetic equivalents. The topics covered should appeal to geologists and geochemists, lithologists, environmental scientists and engineers, chemists and biochemists who have any interest in the intricate world of phosphorus. The hard tissues of many vertebrates and the many pathological calcifications consist mostly of phosphate minerals. The precipitation of these compounds also plays a major role in the ecological cycling of phosphorus, and occasionally even dominates the behavior of many trace metals in many geochemical and biological systems. Indeed, many pegmatitic phosphate minerals have acquired some notoriety because of the rarer trace metals which they tend to accumulate. With the commercialization of phosphate fertilizers since the early part of the 19th century, phosphate minerals have assumed an important role in industrial chemistry and agriculture. Clearly, the study of phosphate minerals is important from the economic, agricultural, environmental and (human and animal) health viewpoint.

Houses from Books

This book defends the radical thesis that no physical object has any of the colours we experience it as having.

The Buildings of Main Street

As many medical and healthcare researchers have a love-hate relationship with statistics, the second edition of this practical reference book may make all the difference. Using practical examples, mainly from the authors' own research, the book explains how to make sense of statistics, turn statistical computer output into coherent information, and help decide which pieces of information to report and how to present them. The book takes you through all the stages of the research process, from the initial research proposal, through ethical approval and data analysis, to reporting on and publishing the findings. Helpful tips and information boxes, offer clear guidance throughout, including easily followed instructions on how to: -develop a quantitative research proposal for ethical/institutional approval or research funding -write up the statistical aspects of a paper for publication -choose and perform simple and more advanced statistical analyses -describe the statistical methods and present the results of an analysis. This new edition covers a wider range of statistical programs - SAS, STATA, R, and SPSS, and shows the commands needed to obtain the analyses and how to present it, whichever program you are using. Each specific example is annotated to indicate other

scenarios that can be analysed using the same methods, allowing you to easily transpose the knowledge gained from the book to your own research. The principles of good presentation are also covered in detail, from translating relevant results into suitable extracts, through to randomised controlled trials, and how to present a meta-analysis. An added ingredient is the inclusion of code and datasets for all analyses shown in the book on our website (<http://medical-statistics.info>). Written by three experienced biostatisticians based in the UK and US, this is a step-by-step guide that will be invaluable to researchers and postgraduate students in medicine, those working in the professions allied to medicine, and statisticians in consultancy roles.

Traditional Witches' Formulary and Potion-Making Guide

This updated edition offers caregivers of stroke patients extensive information on understanding, treating, and recovering from this debilitating condition. Expert advice covers topics from physical rehabilitation to emotional issues, providing help and hope for the millions whose lives are touched by stroke.

PostgreSQL 9.0 High Performance

Many homes across America have designs based on plans taken from pattern books or mail-order catalogs. In *Houses from Books*, Daniel D. Reiff traces the history of published plans and offers the first comprehensive survey of their influence on the structure and the style of American houses from 1738 to 1950. *Houses from Books* shows that architectural publications, from Palladio's *I Quattro Libri* to Aladdin's *Readi-Cut Homes*, played a decisive role in every aspect of American domestic building. Reiff discusses the people and the firms who produced the books as well as the ways in which builders and architects adapted the designs in communities throughout the country. His book also offers a wide-ranging analysis of the economic and social conditions shaping American building practices. As architectural publication developed and grew more sophisticated, it played an increasingly prominent part in the design and the construction of domestic buildings. In villages and small towns, which often did not have professional architects, the publications became basic resources for carpenters and builders at all levels of expertise. Through the use of published designs, they were able to choose among a variety of plans, styles, and individual motifs and engage in a fruitful dialogue with past and present architects. *Houses from Books* reconstructs this dialogue by examining the links between the published designs and the houses themselves. Reiff's book will be indispensable to architectural historians, architects, preservationists, and regional historians. Realtors and homeowners will also find it of great interest. A catalog at the end of the book can function as a guide for those attempting to locate a model and a date for a particular design. *Houses from Books* contains a wealth of photographs, many by the author, that enhance its importance as a history and guide.

Stroke Recovery Book

Polk's St. Paul (Ramsey County, Minn.) City Directory

Mass Customization excites both Researchers and Practitioners because of the possibility to produce customized products with mass production efficiency. Mass Customization - An Exploration of European Characteristics gives an overview on the need for personalisation from a customer perspective, analyses Mass Customization theories and assesses relevant best practices of European and International markets. The results of a survey among more than 500 European customers show a declining willingness of customers to compromise on the issue of suitability of products to their personal needs and preferences, the possibility for companies to break brand loyalty and the influence of immediate availability, delivery time and price to the customer's willingness to take part in the co-creation process. Mass Customization has become important to business because of the difficulties of customers to find what they want despite an increase in product variety for many products over the past decades. The emergence of modern technologies in production and communication, however, allows companies to produce customized products without relinquishing economies of scale. With only few companies having taken this promising path, the authors believe that Mass Customization and Mass Customization related marketing strategies will play an essential role in the future and prompt both market leaders and their competitors to offer customization on a large scale for a vast variety of products.

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