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ALEXZANDER COHEN

Cosmic Rays at Earth World Scientific

The financial industry has recently adopted Python at a tremendous rate, with some of the largest investment banks and hedge funds using it to build core trading and risk management systems. Updated for Python 3, the second edition of this hands-on book helps you get started with the language, guiding developers and quantitative analysts through Python libraries and tools for building financial applications and interactive financial analytics. Using practical examples throughout the book, author Yves Hilpisch also shows you how to develop a full-

fledged framework for Monte Carlo simulation-based derivatives and risk analytics, based on a large, realistic case study. Much of the book uses interactive IPython Notebooks.

Genome Mapping and Genomics in Animal-Associated Microbes John Wiley & Sons

Not content to accept the news as reported, grassroots journalists are publishing in real time to a worldwide audience via the Internet. The impact of their work is just beginning to be felt by professional journalists and the newsmakers they cover. Dan Gillmor tells the story of this phenomenon.

Chromatin and Epigenetics Springer Science & Business Media

This book focuses on the latest genome sequencing of the 25 wild *Oryza* species,

public and private genomic resources, and their impact on genetic improvement research. It also addresses the untapped reservoir of agronomically important traits in wild *Oryza* species. Rice is a model crop plant that is frequently used to address several basic questions in plant biology, yet its wild relatives offer an untapped source of agronomically important alleles that are absent in the rice gene pool. The genus *Oryza* is extremely diverse, as indicated by a wide range of chromosome numbers, different ploidy levels and genome sizes. After a 13-year gap from the first sequencing of rice in the 2002, the genomes of 11 wild *Oryza* species have now been sequenced and more will follow. These vast genomic resources are extremely useful for addressing several basic questions on the origin of the genus,

evolutionary relationships between the species, domestication, and environmental adaptation, and also help to substantiate molecular breeding and pre-breeding work to introgress useful characters horizontally from wild species into cultivated rice.

Grid Networks CRC Press

This book outlines a set of issues that are critical to all of parallel architecture--communication latency, communication bandwidth, and coordination of cooperative work (across modern designs). It describes the set of techniques available in hardware and in software to address each issues and explore how the various techniques interact.

Deep Learning with Python National Academies Press

This book presents an overview of the state-of-the-art in barley genome analysis, covering all aspects of sequencing the genome and translating this important information into new knowledge in basic and applied crop plant biology and new tools for research and crop improvement. Unlimited access to a high-quality reference sequence is removing one of the major constraints in basic and applied research. This book summarizes the

advanced knowledge of the composition of the barley genome, its genes and the much larger non-coding part of the genome, and how this information facilitates studying the specific characteristics of barley. One of the oldest domesticated crops, barley is the small grain cereal species that is best adapted to the highest altitudes and latitudes, and it exhibits the greatest tolerance to most abiotic stresses. With comprehensive access to the genome sequence, barley's importance as a genetic model in comparative studies on crop species like wheat, rye, oats and even rice is likely to increase.

Astro and Geography Greenwood International

This book helps readers evaluate and specify the best Warehouse Management System (WMS) for their need. The advice is based on practical knowledge, describing in detail fundamental processes and technologies needed for a basic understanding. New approaches in the structure and design of WMS are presented, along with discussion of the limitations of current systems. The book shows how to operate a simple WMS

based on the open-source initiative myWMS.

A Hardware/software Approach University Press Antwerp

Plants are amazing organisms to study, some are important sources for pharmaceuticals, and others can help to elucidate molecular mechanisms required for a plant's development and its interactions with the biotic or abiotic environment. Functional genomics is vastly lagging behind the speed of genome sequencing as high-throughput gene function assays are difficult to design, specifically for non-model plants. Bioinformatics tools are useful for gene identification and annotation but are of limited value for predictions concerning gene functions as gene functions are uncovered best by experimental approaches. Virus-Induced-Gene-Silencing (VIGS) is an easy to use, fast, and reliable method to achieve down regulation of target gene expression. Virus-Induced Gene Silencing: Methods and Protocols provides detailed protocols for VIGS experiments in several plant species including model and non-model plants. Also included in this book are recently

developed protocols for VIGS-derived microRNA production in the plant or protein over expression, as well as chapters devoted to summarizing the molecular mechanisms of VIGS action and the vector systems developed so far. Written in the successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *Virus-Induced Gene Silencing: Methods and Protocols* serves as a valuable resource for researchers from diverse fields of plant biology interested in experimental approaches to analyzing gene functions.

Parallel Computer Architecture John Wiley & Sons

Your Python code may run correctly, but you need it to run faster. Updated for Python 3, this expanded edition shows you how to locate performance bottlenecks and significantly speed up your code in high-data-volume programs. By exploring the fundamental theory behind design

choices, High Performance Python helps you gain a deeper understanding of Python's implementation. How do you take advantage of multicore architectures or clusters? Or build a system that scales up and down without losing reliability? Experienced Python programmers will learn concrete solutions to many issues, along with war stories from companies that use high-performance Python for social media analytics, productionized machine learning, and more. Get a better grasp of NumPy, Cython, and profilers Learn how Python abstracts the underlying computer architecture Use profiling to find bottlenecks in CPU time and memory usage Write efficient programs by choosing appropriate data structures Speed up matrix and vector computations Use tools to compile Python down to machine code Manage multiple I/O and computational operations concurrently Convert multiprocessing code to run on local or remote clusters Deploy code faster using tools like Docker

For Students in Nebo School District "O'Reilly Media, Inc."

A book that bridges the gap between the communities of network and Grid experts.

Grid Networks describes the convergence of advanced networking technologies and Grid technologies, with special focus on their symbiotic relationship and the resulting new opportunities. Grid technology is applicable to many implementations, Computational Grids, Data Grids, Service Grids, and Instrumentation Grids. The authors cover a breadth of topics including recent research, featuring both theoretical concepts and empirical results. Beginning with an overview of Grid technologies, an analysis of distinguishing use cases and architectural attributes, and emerging standards. Travostino et al. discuss new directions in multiple networking technologies that are enabling enhanced capabilities for Grids. An appendix also provides an overview of experimental research test-beds and prototype implementations. These topics will enable network experts to design networks to best match Grid requirements, while Grid experts will learn how to effectively utilize network resources. Grid Networks: Enabling Grids with Advanced Communication Technology: Bridges the gap between the communities of network

and Grid experts. Covers new network requirements posed by the Grid, and the paradigm shifts prompted by Grid applications. Discusses basic architectural concepts and directions related to the integration of Grid and networking technologies, especially those that elevate network resources to first class entities within Grid environments. Details new directions in networking technologies for the Grid, including Network Infrastructure & Management, Service Provisioning, High Performance Data Transport, Performance Monitoring, Reliability, and Network-Assisted Service Frameworks. Provides an overview of advanced research testbeds and innovative early implementations of emerging architecture and technology. Many communities will find this book an invaluable resource, including engineers and product managers, research scientists within academia, industry, and government agencies, advanced students and faculty in distributed systems courses, network and systems architects, CIOs, administrators of advanced networks, application developers, and providers of next generation distributed services.

Big Data Analytics: Systems, Algorithms,

*Applications Gene Cloning and DNA Analysis*An Introduction
Contexts for Learning consists of:
Investigations and Resource Guides - workshop structure involves students in inquiring, investigating, discussing, and constructing mathematical solutions and strategies - investigations encourage emergent learning and highlight the developmental landmarks in mathematical thinking - strings of related problems develop students' deep number sense and expand their strategies for mental arithmetic
Read-Aloud Books and Posters - create rich, imaginable contexts--realistic and fictional--for mathematics investigations - are carefully crafted to support the development of the big ideas, strategies, and models - encourage children to explore and generate patterns, generalize, and develop the ability to mathematize their worlds
Resources for Contexts for Learning CD-ROM - author videos describe the series' philosophy and organization - video overviews show classroom footage of a math workshop, including minilessons, investigations, and a math congress - print resources include research base, posters, and templates

Principles of Radiation Interaction in Matter and Detection IBM Redbooks
*Gene Cloning and DNA Analysis*An Introduction John Wiley & Sons
Mapping and Sequencing the Human Genome IBM Redbooks
This book covers all necessary aspects on the global epidemiology of *Malassezia* species and their effect on various diseases. Valuable treatment advice is given in order to improve the treatment outcome of affected patients.
Catalogue of Aleocharine Rove Beetles of Canada and Alaska (Coleoptera, Staphylinidae, Aleocharinae) World Bank Publications
Modeling Creativity (doctoral thesis, 2013) explores how creativity can be represented using computational approaches. Our aim is to construct computer models that exhibit creativity in an artistic context, that is, that are capable of generating or evaluating an artwork (visual or linguistic), an interesting new idea, a subjective opinion. The research was conducted in 2008–2012 at the Computational Linguistics Research Group (CLiPS, University of Antwerp) under the supervision of Prof. Walter Daelemans.

Prior research was also conducted at the Experimental Media Research Group (EMRG, St. Lucas University College of Art & Design Antwerp) under the supervision of Lucas Nijs. Modeling Creativity examines creativity in a number of different perspectives: from its origins in nature, which is essentially blind, to humans and machines, and from generating creative ideas to evaluating and learning their novelty and usefulness. We will use a hands-on approach with case studies and examples in the Python programming language.

Practical Performant Programming for Humans Elsevier

While the first edition of the critically acclaimed and highly popular Circadian Physiology offered a concise but rigorous review of basic and applied research on circadian rhythms, this newest edition provides educators with the primary textbook they need to support a course on this cutting-edge topic. Maintaining the same accessible multidisciplinary approach of the original, this volume provides a thorough grounding in a broad range of topics, while offering instructors many unique advantages. This impressive

handbook provides the foundation, along with the supplementary material, and all the implementation details necessary to run a cutting-edge class on an exceptionally timely and intriguing topic. This edition of Circadian Physiology not only updates the material covered in the original, but it also expands its length and scope, presenting many new findings, such as the discovery of new retinal photoreceptors, the identification of several non-hypothalamic circadian pacemakers, and the elucidation of genomic and proteomic mechanisms of biological timing. Three times the length of the original, this volume includes approximately 730 figures and 5,000 bibliographic references, making it a true handbook of circadian physiology.

Introduction to Chemistry "O'Reilly Media, Inc."

In 1912 Victor Franz Hess made the revolutionary discovery that ionizing radiation is incident upon the Earth from outer space. He showed with ground-based and balloon-borne detectors that the intensity of the radiation did not change significantly between day and night. Consequently, the sun could not be

regarded as the sources of this radiation and the question of its origin remained unanswered. Today, almost one hundred years later the question of the origin of the cosmic radiation still remains a mystery. Hess' discovery has given an enormous impetus to large areas of science, in particular to physics, and has played a major role in the formation of our current understanding of universal evolution. For example, the development of new fields of research such as elementary particle physics, modern astrophysics and cosmology are direct consequences of this discovery. Over the years the field of cosmic ray research has evolved in various directions: Firstly, the field of particle physics that was initiated by the discovery of many so-called elementary particles in the cosmic radiation. There is a strong trend from the accelerator physics community to reenter the field of cosmic ray physics, now under the name of astroparticle physics. Secondly, an important branch of cosmic ray physics that has rapidly evolved in conjunction with space exploration concerns the low energy portion of the cosmic ray spectrum. Thirdly, the branch of research

that is concerned with the origin, acceleration and propagation of the cosmic radiation represents a great challenge for astrophysics, astronomy and cosmology. Presently very popular fields of research have rapidly evolved, such as high-energy gamma ray and neutrino astronomy. In addition, high-energy neutrino astronomy may soon initiate as a likely spin-off neutrino tomography of the Earth and thus open a unique new branch of geophysical research of the interior of the Earth. Finally, of considerable interest are the biological and medical aspects of the cosmic radiation because of its ionizing character and the inevitable irradiation to which we are exposed. This book is a reference manual for researchers and students of cosmic ray physics and associated fields and phenomena. It is not intended to be a tutorial. However, the book contains an adequate amount of background materials that its content should be useful to a broad community of scientists and professionals. The present book contains chiefly a data collection in compact form that covers the cosmic radiation in the vicinity of the Earth, in the Earth's atmosphere, at sea level and

underground. Included are predominantly experimental but also theoretical data. In addition the book contains related data, definitions and important relations. The aim of this book is to offer the reader in a single volume a readily available comprehensive set of data that will save him the need of frequent time consuming literature searches.

The Nematode Caenorhabditis Elegans
Cold Spring Harbor Laboratory Press
This book provides a comprehensive survey of techniques, technologies and applications of Big Data and its analysis. The Big Data phenomenon is increasingly impacting all sectors of business and industry, producing an emerging new information ecosystem. On the applications front, the book offers detailed descriptions of various application areas for Big Data Analytics in the important domains of Social Semantic Web Mining, Banking and Financial Services, Capital Markets, Insurance, Advertisement, Recommendation Systems, Bio-Informatics, the IoT and Fog Computing, before delving into issues of security and privacy. With regard to machine learning techniques, the book presents all the

standard algorithms for learning – including supervised, semi-supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective Deep Learning. Multi-layered and nonlinear learning for Big Data are also covered. In turn, the book highlights real-life case studies on successful implementations of Big Data Analytics at large IT companies such as Google, Facebook, LinkedIn and Microsoft. Multi-sectorial case studies on domain-based companies such as Deutsche Bank, the power provider Opower, Delta Airlines and a Chinese City Transportation application represent a valuable addition. Given its comprehensive coverage of Big Data Analytics, the book offers a unique resource for undergraduate and graduate students, researchers, educators and IT professionals alike.

[IBM Power System E980: Technical Overview and Introduction](#)

IBM.Com/Redbooks

This long-awaited first guide to sample preparation for proteomics studies overcomes a major bottleneck in this fast growing technique within the molecular

life sciences. By addressing the topic from three different angles -- sample, method and aim of the study -- this practical reference has something for every proteomics researcher. Following an introduction to the field, the book looks at sample preparation for specific techniques and applications and finishes with a section on the preparation of sample types. For each method described, a summary of the pros and cons is given, as well as step-by-step protocols adaptable to any specific proteome analysis task.

3-level Bundle Springer Science & Business Media

This IBM® Redpaper™ publication provides a broad understanding of a new architecture of the IBM Power System E980 (9080-M9S) server that supports IBM AIX®, IBM i, and Linux operating systems (OSes). The objective of this paper is to introduce the major innovative Power E980 offerings and relevant functions: The IBM POWER9™ processor, which is available at frequencies of 3.55 - 4.0 GHz. Significantly strengthened cores and larger caches. Supports up to 64 TB memory. Integrated I/O subsystem and hot-pluggable Peripheral Component

Interconnect Express (PCIe) Gen4 slots, double the bandwidth of Gen3 I/O slots. Supports EXP12SX and ESP24SX external disk drawers, which have 12 Gb SAS interfaces and double the existing EXP24S drawer bandwidth. New IBM EnergyScale™ technology offers new variable processor frequency modes that provide a significant performance boost beyond the static nominal frequency. This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. The intended audience includes the following roles: Clients Sales and marketing professionals Technical support professionals IBM Business Partners Independent software vendors (ISVs) This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power E980 server. This paper does not replace the current marketing materials and configuration tools. It is intended as an extra source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

HLA and Associated Important Diseases
Springer

There is growing enthusiasm in the scientific community about the prospect of mapping and sequencing the human genome, a monumental project that will have far-reaching consequences for medicine, biology, technology, and other fields. But how will such an effort be organized and funded? How will we develop the new technologies that are needed? What new legal, social, and ethical questions will be raised? Mapping and Sequencing the Human Genome is a blueprint for this proposed project. The authors offer a highly readable explanation of the technical aspects of genetic mapping and sequencing, and they recommend specific interim and long-range research goals, organizational strategies, and funding levels. They also outline some of the legal and social questions that might arise and urge their early consideration by policymakers. Cambridge University Press
Designed for students in Nebo School District, this text covers the Utah State Core Curriculum for chemistry with few additional topics.