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The first volume in the new Cambridge Handbooks in Behavioral Genetics series, Behavioral Genetics of the Mouse provides baseline information on normal behaviors, essential in both the design of experiments using genetically modified or pharmacologically treated animals and in the interpretation and analyses of the results obtained. The book offers a comprehensive overview of the genetics of naturally occurring variation in mouse behavior, from perception and spontaneous behaviors such as exploration, aggression, social interactions and motor behaviors, to reinforced behaviors such as the different types of learning. Also included are numerous examples of potential experimental problems, which will aid and guide researchers trying to troubleshoot their own studies. A lasting reference, the thorough and comprehensive reviews offer an easy entrance into the extensive literature in this field, and will prove invaluable to students and specialists alike.

Expert Oracle RAC 12c is a hands-on book helping you understand and implement Oracle Real Application Clusters (RAC), and to reduce the total-cost-of-ownership (TCO) of a RAC database. As a seasoned professional, you are probably aware of the importance of understanding the technical details behind the RAC stack. This book provides deep understanding of RAC concepts and implementation details that you can apply toward your day-to-day operational practices. You'll be guided in troubleshooting and avoiding trouble in your installation. Successful RAC operation hinges upon a fast-performing network interconnect, and this book dedicates a chapter solely to that very important and easily overlooked topic. All four authors are experienced RAC engineers with a wealth of hard-won experience encountering and surmounting the challenges of running a RAC environment that delivers on its promise. In Expert Oracle RAC 12c they provide you a framework in which to avoid repeating their hard-won lessons. Their goal is for you to manage your own RAC environment with ease and expertise. Provides a deep conceptual understanding of RAC Provides best practices to implement RAC properly and match application workload Enables readers to troubleshoot RAC with ease What you'll learn Know when to apply RAC, and when not to Design applications to take advantage of RAC Troubleshoot and solve clusterware problems Manage database backup and recovery in RAC Stay on top of locking issues and deadlock detection Harness the performance from parallel processing in RAC Support your RAC environment with a healthy network interconnect Who this book is for Expert Oracle RAC 12c is for experienced Oracle Database Administrators (DBAs) who are ready to take the next step in their career by expanding their skill set to include building and managing Oracle Real Application Clusters (RAC). DBAs and architects who are in the process of implementing RAC can immensely benefit from this book. It's an excellent choice for DBAs to learn RAC conceptually, understand best practices, and become experts in troubleshooting RAC problems. Table of ContentsOverview of Oracle RAC Clusterware Management and Troubleshooting RAC Operational Practices RAC New Features Storage and ASM Practices Application Design Issues Managing and Optimizing a Complex RAC Environment Backup and Recovery in RAC Network Practices in RAC RAC Database Optimization Locks and Deadlocks Parallel Query in RAC Clusterware and Database Upgrades Oracle RAC One Node

Written for one of the best travel cameras ever made, this comprehensive yet easy-to-understand guide for the Sony Alpha 6000 is written for the advanced user (with tutorials and easy explanations in case you're not so advanced). In it we provide a thorough guide which explains each feature in plain English and provides hundreds of visual examples as well. There is no better way to learn about and get the most out of your camera. Get the most out of your investment and enjoy learning more about it at the same time! A complete description, preview

pages and a table of contents can all be found on the author's website.

Along with servers and networking infrastructure, networked storage is one of the fundamental components of a modern data center. Because storage networking has evolved over the past two decades, the industry has settled on the basic storage networking technologies. These technologies are Fibre Channel (FC) storage area networks (SANs), Internet Small Computer System Interface (iSCSI)-based Ethernet attachment, and Ethernet-based network-attached storage (NAS). Today, lossless, low-latency, high-speed FC SANs are viewed as the high-performance option for networked storage. iSCSI and NAS are viewed as lower cost, lower performance technologies. The advent of the 100 Gbps Ethernet and Data Center Bridging (DCB) standards for lossless Ethernet give Ethernet technology many of the desirable characteristics that make FC the preferred storage networking technology. These characteristics include comparable speed, low latency, and lossless behavior. Coupled with an ongoing industry drive toward better asset utilization and lower total cost of ownership, these advances open the door for organizations to consider consolidating and converging their networked storage infrastructures with their Ethernet data networks. Fibre Channel over Ethernet (FCoE) is one approach to this convergence, but 10-Gbps-enabled iSCSI also offers compelling options for many organizations with the hope that their performance can now rival that of FC. This IBM® Redbooks® publication is written for experienced systems, storage, and network administrators who want to integrate the IBM System Networking and Storage technology successfully into new and existing networks. This book provides an overview of today's options for storage networking convergence. It reviews the technology background for each of these options and then examines detailed scenarios for them by using IBM and IBM Business Partner convergence products.

Over 50 simple but incredibly effective recipes for installing and managing System Center 2012 Endpoint Protection in this book and e-book.

This Open Access volume aims to methodologically improve our understanding of biodiversity by linking disciplines that incorporate remote sensing, and uniting data and perspectives in the fields of biology, landscape ecology, and geography. The book provides a framework for how biodiversity can be detected and evaluated--focusing particularly on plants--using proximal and remotely sensed hyperspectral data and other tools such as LiDAR. The volume, whose chapters bring together a large cross-section of the biodiversity community engaged in these methods, attempts to establish a common language across disciplines for understanding and implementing remote sensing of biodiversity across scales. The first part of the book offers a potential basis for remote detection of biodiversity. An overview of the nature of biodiversity is described, along with ways for determining traits of plant biodiversity through spectral analyses across spatial scales and linking spectral data to the tree of life. The second part details what can be detected spectrally and remotely. Specific instrumentation and technologies are described, as well as the technical challenges of detection and data synthesis, collection and processing. The third part discusses spatial resolution and integration across scales and ends with a vision for developing a global biodiversity monitoring system. Topics include spectral and functional variation across habitats and biomes, biodiversity variables for global scale assessment, and the prospects and pitfalls in remote sensing of biodiversity at the global scale.

Cisco CCNA by example is a two book valued exam study guide for the preparation of 100-101 ICND1, 200-101 ICND2 and 200-120 CCNA exams. This is a first ever step by step guide for people studying for CCNA exam and also for those looking for extra knowledge for CCNP studies. The objective of this book is to assist you to understand necessary details of all topics covered in CCNA exam. CCNA R&S will be a foundation for people as they progress through the other Cisco certifications like CCDA, CCNP,

and CCDP etc.This book will help you pass the CCNA exam, by doing the following:i. Helps you discover and understand test topics ii. Provide enough explanations and information for better in-depth conceptsiii. Provide scenarios for better understandingiv. Provide practice Questionnaire based for testing process Features• 2 Books for CCNA preparation • Ideal for self-paced students and professional • Expert explanation and practical labs of all commands, and technologies covered on the ICND1 and ICND2 exams• Scenario based problem solving essential for exam and for real world professional networks• Exams questions and answers preparation for successThese two study guides help you master all the topics on the CCNA exams:

This book is written in a practical, Cookbook style with numerous chapters and recipes focusing on creating runbooks to automate mission critical and everyday administration tasks.System Center 2012 Orchestrator is for administrators who wish to simplify the process of automating systems administration tasks. This book assumes that you have a basic knowledge of Windows Server 2008 Administration, Active Directory, Network Systems, and Microsoft System Center technologies.

This book constitutes the refereed proceedings papers from the 8th International Workshop on Performance Modeling, Benchmarking and Simulation of High Performance Computing Systems, PMBS 2017, held in Denver, Colorado, USA, in November 2017. The 10 full papers and 3 short papers included in this volume were carefully reviewed and selected from 36 submissions. They were organized in topical sections named: performance evaluation and analysis; performance modeling and simulation; and short papers.

A practical guide packed with step-by-step recipes to design a virtual datacenter using VMware 5.x. This book is a guide for anyone interested in designing virtualized datacenters using VMware vSphere 5.x and the supporting components. Current administrators of VMware vSphere environments will find this book useful when interested in becoming a vSphere Architect or are interested in learning more about the virtual datacenter design process. Knowledge of vSphere installation, configuration, and administration is a prerequisite.

With the help of this sniper's bible, the famed U.S. Army snipers killed 1,187 Vietcong in one five-month period and expended only 1.37 rounds per kill. This manual is also an excellent tool for honing hunting and target skills.

CUDA is a computing architecture designed to facilitate the development of parallel programs. In conjunction with a comprehensive software platform, the CUDA Architecture enables programmers to draw on the immense power of graphics processing units (GPUs) when building high-performance applications. GPUs, of course, have long been available for demanding graphics and game applications. CUDA now brings this valuable resource to programmers working on applications in other domains, including science, engineering, and finance. No knowledge of graphics programming is required—just the ability to program in a modestly extended version of C. CUDA by Example, written by two senior members of the CUDA software platform team, shows programmers how to employ this new technology. The authors introduce each area of CUDA development through working examples. After a concise introduction to the CUDA platform and architecture, as well as a quick-start guide to CUDA C, the book details the techniques and trade-offs associated with each key CUDA feature. You'll discover when to use each CUDA C extension and how to write

CUDA software that delivers truly outstanding performance. Major topics covered include Parallel programming Thread cooperation Constant memory and events Texture memory Graphics interoperability Atomics Streams CUDA C on multiple GPUs Advanced atomics Additional CUDA resources All the CUDA software tools you'll need are freely available for download from NVIDIA. http://developer.nvidia.com/object/cuda-by-example.html

This book presents an internationally comprehensive perspective into the field of complex systems. It explores the challenges of and approaches to complexity from a broad range of disciplines, including big data, health care, medicine, mathematics, mechanical and systems engineering, air traffic control and finance. The book's interdisciplinary character allows readers to identify transferable and mutually exclusive lessons learned among these disciplines and beyond. As such, it is well suited to the transfer of applications and methodologies between ostensibly incompatible disciplines. This book provides fresh perspectives on comparable issues of complexity from the top minds on systems thinking.

vSphere High Performance Cookbook is written in a practical, helpful style with numerous recipes focusing on answering and providing solutions to common, and not-so common, performance issues and problems.The book is primarily written for technical professionals with system administration skills and some VMware experience who wish to learn about advanced optimization and the configuration features and functions for vSphere 5.1.

The Consumer Financial Protection Bureau's Semiannual Report to CongressHearing Before the Committee on Banking, Housing, and Urban Affairs, United States Senate, One Hundred Thirteenth Congress, First Session2018 7th International Conference on Computer and Communication Engineering (ICCCE)

Cardiac surgical procedures are among the most common and most complicated forms of surgery worldwide and the postoperative period is characterized by complex challenges. Among the factors determining ultimate clinical outcome, postoperative critical care is of major importance. This book adopts a clinical approach in explaining and analyzing the course of clinical care in patients undergoing cardiac surgery. Since the postoperative clinical status is directly influenced by preoperative and intraoperative factors, the early chapters briefly examine preoperative issues and the intraoperative course of cardiac surgery, with particular attention to anesthesia and the process of cardiopulmonary bypass. Subsequent chapters primarily address the critical care of patients by means of an organ-oriented approach, which will enable the reader to use the text as a "cookbook" of cardiac intensive care. This book is intended for use in daily practice by cardiac surgeons, cardiac anesthesiologists, intensivists and cardiac intensive care nurses.

Must-have study guide for the SAS® Certified Statistical Business Analyst Using SAS®9: Regression and Modeling exam! Written for both new and experienced SAS programmers, the SAS® Certification Prep Guide: Statistical Business Analysis Using SAS®9 is an in-depth prep guide for the SAS® Certified Statistical Business Analyst Using SAS®9: Regression and Modeling exam. The authors step through identifying the business question, generating results with SAS, and interpreting the output in a business context. The case study approach uses both real and simulated data to master the content of the certification exam. Each chapter also includes a quiz aimed at

testing the reader's comprehension of the material presented. Major topics include: ANOVA Linear Regression Logistic Regression Inputs for Predictive Modeling Model Performance For those new to statistical topics or those needing a review of statistical foundations, this book also serves as an excellent reference guide for understanding descriptive and inferential statistics. Appendices can be found here.

This book describes, diagnoses, and solves the most common problems with SQL Server 2005, 2008, and 2008 R2. The authors explain a basic approach to troubleshooting and the essential tools. They explore areas in which problems arise with regularity: high disk I/O (RAID misconfiguration, inadequate I/O throughput, poor workload distribution, SAN issues, disk partition misalignment); high CPU usage (insufficient memory, poorly written queries, inadequate indexing, inappropriate configuration option settings); memory mismanagement; missing indexes; blocking (caused mainly by poorly designed databases that lack proper keys and indexing, and applications that apply needlessly restrictive transaction isolation levels); deadlocking (Bookmark Lookup, Serializable Range Scan, Cascading Constraint); full transaction logs (lack of log backups, hefty index maintenance operations, long running transaction, problems with replication and mirroring environments); and accidentally-lost data. Finally, the authors discuss diagnosing tools such as the Performance Monitor, Dynamic Management Views, and server-side tracing. --

The Fibre Channel Association is a group of companies involved in developing devices and technologies used with Fibre Channel, a very high-speed bus technology capable of bi-directional data transfer at rates in excess of one gigabit per second. Describes how to use Fibre Channel technology to connect between storage devices and network servers for maximum data transfer Authoring association is a group of companies involved in developing devices and technologies used with Fibre Channel Discuses cutting edge technology capable of bi-directional data transfer at rates in excess of one gigabit per second

Study & Master Accounting was developed with the help of practising teachers, and covers all the requirements of the National Curriculum Statement for accounting.

This second edition offers a comprehensive overview of the physiological functions of vertebrate kidneys from a comparative viewpoint, with particular emphasis on nonmammalian vertebrates. The topics covered include renal structure; glomerular ultrafiltration; tubular transport of inorganic ions, organic substances, and fluid; and urine dilution and concentration. Mammalian renal function is only considered for purposes of comparison with nonmammalian renal function and as a frame of reference for some of the discussions. The major findings on nonmammalian renal function and the important unanswered questions raised by those findings are described in detail. As such, the book provides comprehensive information on comparative renal function for biological scientists and advanced students of biology with some knowledge of physiology and a desire to know more about renal function in vertebrates, and for mammalian renal physiologists who wish to obtain a broader view of renal function.

DocBook is a system for writing structured documents using SGML and XML. DocBook provides all the elements you'll need for technical documents of all

kinds. A number of computer companies use DocBook for their documentation, as do several Open Source documentation groups, including the Linux Documentation Project (LDP). With the consistent use of DocBook, these groups can readily share and exchange information. With an XML-enabled browser, DocBook documents are as accessible on the Web as in print. DocBook : The Definitive Guide is the complete and official documentation of the DocBook Document Type Definition (DTD) and many of its associated tools. In this book, you'll find : A brief introduction to SGML and XML ; a guide to creating documents with the DocBook DTD and associated stylesheets. Information about using SGML and XML tools like jade and DSSSL ; a guide to customizing DocBook ; a complete SGML and XML reference, including examples, for every DocBook element. In addition, the CD-ROM contains the complete source text of this book, in both SGML and HTML ; all the examples from the book ; DSSSL stylesheets that let you convert DocBook documents to RTF, LaTeX, or HTML ; The DocBook DTD for SGML, version 3*1 ; The DocBk DTD for XML, version 3*1*5. In an era of collaborative creation of technology, when information is needed online as often as in print, DocBook is the essential. documentation environment. "DocBook : The Definitive Guide" is the one essential source of information about that environment.

Mapping Forestry describes how geographic information system (GIS) software supports the business of forestry in today's era of economic changes, increased global competition, and diminishing resources. In twenty scenarios from the United States, Germany, Brazil, Romania, Finland, and Cambodia, foresters share how they use GIS to manage commercial operations and sustainable stewardship. Forest managers tell how computer-generated maps and GIS analysis help them determine the best places to build roads, whether logging in a particular area is commercially feasible, which fire-damaged areas should be restored first, and more. Mapping Forestry contains 20 chapters of full-color maps, featuring detailed descriptions of the types of GIS analysis that they represent, making it an excellent tool for forestry professionals.

The five-volume set LNCS 9786-9790 constitutes the refereed proceedingsof the 16th International Conference on Computational Science and ItsApplications, ICCSA 2016, held in Beijing, China, in July 2016. The 239 revised full papers and 14 short papers presented at 33 workshops were carefully reviewed and selected from 849 submissions. They are organized in five thematical tracks: computational methods, algorithms and scientific applications; high performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies.

Hydrothermal Behavior of Fiber- and Nanomaterial-Reinforced Polymer Composites provides critical information regarding the in-service environmental damage and degradation studies of nano/fiber reinforced polymer (FRP) composites focusing on hydrothermal degradation. Covering hydrothermal properties of a wide range of polymer composites, the book is aimed at graduate

students, researchers, and professionals in material engineering, composite materials, nanomaterials, and related fields.

This is a solitary attempt to streamline all the possible information related to citrus nutrition, with emphasis on diagnosis and management of nutrient constraints, employing a variety of state-of-art techniques evolved globally over the years . While doing so care has been taken to include peripheral disciplines so that the discussion becomes more lively and authoritative. An entire array of exclusive subjects has been nicely portrayed with the help of latest data and photographs. Thinking of the text from the Dies frae (S. Matthew, XXV, 40). It is also probable that this other Saint Francis, partly out of admiration for his illustrious compatriot of Assisi and partly from a compelling urge to be superlative in all things, chose the title in opposition to the Franciscans, the Fratres Minori, I who had previously adopted this style taken from Saint Matthew, XXIII, 8. The title "Minim" was confirmed in these words" ... eosque Eremitos Ordinis Minimorum Fratrum Eremitarum F. Francesci de Paula in posterum nuncupari," taken from the Papal Bull, Meritis religiosae vitae, of 26 February, 1493. The earliest reference to the Order in France is in a fragment preserved in the Bibliotheque de l' Arsenal called, La regle et vie de Frere Franfois, pauvre et humble hermite de Paule, laquelle donne a tous ses 2 freres voulant entrer et vivre en son ordre. The dating of this manuscript should be accepted with considerable reserve; it bears a clearly legible "1474," although it seems most unlikely that any reference to an Order occurred before the Bull of 1493 or that any Rule appeared in French before the Founder's visit to Louis XI in 1483. 3 The fame of Francis and his reputation as a "guerisseur" had reached the French court where Louis XI was sick and dying; the King summoned him to the chateau of Le Plessis-Ies-Tours, but it required the intervention of the Pope to make the hermit undertake the journey.

This book constitutes the proceedings of the Third Latin American Conference on High Performance Computing, CARLA 2016, held in Mexico City, Mexico, in August/September 2016. The 30 papers presented in this volume were carefully reviewed and selected from 70 submissions. They are organized in topical sections named: HPC Infrastructure and Applications; Parallel Algorithms and Applications; HPC Applications and Simulations.

For as long as one can remember, the edifice of the neoclassical economic syn thesis has been under attack. Critiques have focused on the extreme unreality of the assumptions that underpin the Arrow-Debreu theorems of welfare economics. They have queried the excessive formalism of the edifice, and the lack of practical significance of many of the results.They have castigated the neoclassical synthesis for its internal incoherence (lacking an independent theory of capital, for example, one of the favorite topics of the Cambridge school), its lack of a dynamic element, its non-evolutionary character, its lack of any conception of "market process" and so the list could be continued (Blaug, 1997). Through all this, the neoclassi cal synthesis remains as strong as ever,

impervious it seems to these or any other attacks. In this paper a different tack is taken. The neoclassical edifice is left alone, standing as a representation of what goes on in a certain kind ofeconomy- namely the economy wheregoods and services are producedand exchanged. The paper then introduces another kind of economy, namely an economy of productive entities called "resources"- that are needed to produce the economyofgoods and services.

Death Of A Sanitation Engineer Imagine a time in the distant future where France is nothing more than a parking lot. Andy Wilson embarked on a space station to visit new worlds, meet aliens, and mainly to party. Assigned to sanitation duties out in deep space could drive anyone crazy. Especially when your leader is an egg and war is brewing...

If you're a system administrator, developer, or site reliability engineer responsible for handling hundreds or even thousands of nodes in your network, the Puppet configuration management tool will make your job a whole lot easier. This practical guide shows you what Puppet does, how it works, and how it can provide significant value to your organization. Through hands-on tutorials, DevOps engineer Jo Rhett demonstrates how Puppet manages complex and distributed components to ensure service availability. You'll learn how to secure configuration consistency across servers, clients, your router, and even that computer in your pocket by setting up your own testing environment. Learn exactly what Puppet is, why it was created, and what problems it solves Tailor Puppet to your infrastructure with a design that meets your specific needs Write declarative Puppet policies to produce consistency in your systems Build, test, and publish your own Puppet modules Manage network devices such as routers and switches with puppet device and integrated Puppet agents Scale Puppet servers for high availability and performance Explore web dashboards and orchestration tools that supplement and complement Puppet

Biography of Col. James Williams, 1740-1780, the highest ranking officer who died from wounds suffered at the Battle of Kings Mountain (October 7, 1780) during the American Revolutionary War.

This book constitutes the refereed proceedings oft he 19th International Symposium on Research in Attacks, Intrusions, and Defenses, RAID 2016, held in Evry, France, in September 2016. The 21 full papers presented were carefully reviewed and selected from 85 submissions. They are organized around the following topics: systems security; low-level attacks and defenses; measurement studies; malware analysis; network security; systematization of knowledge and experience reports; Web and mobile security.

This book is for all people who are forced to use UNIX. It is a humorous book--pure entertainment--that maintains that UNIX is a computer virus with a user interface. It features letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let readers know they are not alone.