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GPU programming in MATLAB is intended for scientists, engineers, or students who develop or maintain applications in MATLAB and would like to accelerate their codes using GPU programming without losing the many benefits of MATLAB. The book starts with coverage of the Parallel Computing Toolbox and other MATLAB toolboxes for GPU computing, which allow applications to be ported straightforwardly onto GPUs without extensive knowledge of GPU programming. The next part covers built-in, GPU-enabled features of MATLAB, including options to leverage GPUs across multicore or different computer systems. Finally, advanced material includes CUDA code in MATLAB and optimizing existing GPU applications. Throughout the book, examples and source codes illustrate every concept so that readers can immediately apply them to their own development. Provides in-depth, comprehensive coverage of GPUs with MATLAB, including the parallel computing toolbox and built-in features for other MATLAB toolboxes Explains how to accelerate computationally heavy applications in MATLAB without the need to re-write them in another language Presents case studies illustrating key concepts across multiple fields Includes source code, sample datasets, and lecture slides

The construction materials industry is a major user of the world's resources. While enormous progress has been made towards sustainability, the scope and opportunities for improvements are significant. To further the effort for sustainable development, a conference on Sustainable Construction Materials and Technologies was held at Coventry University, Coventry, U.K., from June 11th - 13th, 2007, to highlight case studies and research on new and innovative ways of achieving sustainability of construction materials and technologies. This book presents selected, important contributions made at the conference. Over 190 papers from over 45 countries were accepted for presentation at the conference, of which approximately 100 selected papers are published in this book. The rest of the papers are published in two supplementary books. Topics covered in this book include: sustainable alternatives to natural sand, stone, and Portland cement in concrete; sustainable use of recyclable resources such as fly ash, ground municipal waste slag, pozzolan, rice-husk ash, silica fume, gypsum plasterboard (drywall), and lime in construction; sustainable mortar, concrete, bricks, blocks, and backfill; the economics and environmental impact of sustainable materials and structures; use of construction and demolition wastes, and organic materials (straw bale, hemp, etc.) in construction; sustainable use of soil, timber, and wood products; and related sustainable construction and rehabilitation technologies.

Tremendous improvements in ground-water sampling methodologies and analytical technologies have made it possible to collect and analyze truly representative samples to detect increasingly lower levels of contaminants-now in the sub-parts-per-billion range. Though these new methods produce more accurate and precise data and are less expensive, many

As EPA standards for water quality have tightened in recent years, the need to more accurately assess filter performance and improve the overall treatment process has led to increased demand for the high sensitivity provided by particle counters. One particle counter can give you more data than a dozen turbidimeters-if you know how to sort through

Explains the progression in Unix from grep to sed and awk, describes how to write sed scripts, covers common programming constructs, and details awk's built-in functions

This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8 environments. The target audience of this book is IT architects and consultants who want more information about the planning and designing of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server V8 and highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for WebSphere Application Server V8 and WebSphere Application Server Network Deployment V8 on distributed platforms and for WebSphere Application Server for z/OS® V8. This book contains information about migration considerations when moving from previous releases.

This IBM Redbooks publication is designed as a study guide for professionals wishing to prepare for the certification exam (Test 222) to achieve: IBM Certified Specialist eServer p5 and pSeries Administration and Support for AIX 5L Version 5.3. The certification validates a broad scope of AIX 5L administration, support, problem determination skills, and the ability to perform general AIX 5L software system maintenance. This book helps AIX 5L professionals seeking a comprehensive and task-oriented guide for developing the knowledge and skills required for the certification. It is designed to provide a combination of theory and practical experience needed for a general understanding of the subject matter. This book does not replace practical experience you should have, but is an effective tool that, when combined with education activities and experience, should prove to be a very useful preparation guide for the exam. Due to the practical nature of the certification content, this publication can also be used as a desk-side reference. So, whether you are planning to take the eServer p5 and pSeries Administration and Support for AIX 5L Version 5.3 certification exam, or if you just want to validate your AIX 5L skills, this book is for you.

A Simple Practical Guide to Solar Energy Designing and Installing Photovoltaic Solar Electric Systems The Solar Electricity Handbook is a practical and straightforward guide to using electric solar panels. Assuming no previous knowledge, the book explains how solar panels work, how they can be used and explains the steps you need to take to successfully design and install a solar photovoltaic system from scratch. This books contains all basic knowledge for exmple: 1. Selection Solar panel 2. Calculation of requirement of battery, inverter etc 3. Various Types Solar Connectors 4. Solar Power

Charge Controllers, 5. Wire and cables and connections 6. Junction Box and connection 7. Safety Measures 8. Government subsidy Rules 9. List of Suppliers and manufacturers in India for Solar panel, battery and other Equipments 10 Clculation of size of solar cables 11. Price list of Panels and other resources. 12 Roof Installation 13. Ground Installation. 14 Pole installation 15. Different type of solar cell technology 16. Solar accessories and equipments and much more.

An excellent source of reference on the current practice of physical modelling in geotechnics and environmental engineering. Volume One concentrates on physical modelling facilities and experimental techniques, soil characterisation, slopes, dams, liquefaction, ground improvement and reinforcement, offshore foundations and anchors, and pipelines. V

In this IBM® Redbooks® publication, you will gain an appreciation of the IBM CICS® Transaction Gateway (CICS TG) product suite, based on key criteria, such as capabilities, scalability, platform, CICS server support, application language support, and licensing model. Matching the requirements to available infrastructure and hardware choices requires an appreciation of the choices available. In this book, you will gain an understanding of those choices, and will be capable of choosing the appropriate CICS connection protocol, APIs for the applications, and security options. You will understand the services available to the application developer when using a chosen protocol. You will then learn about how to implement CICS TG solutions, taking advantage of the latest capabilities, such as IPIC connectivity, high availability, and Dynamic Server Selection. Specific scenarios illustrate the usage of CICS TG for IBM z/OS®, and CICS TG for Multiplatforms, with CICS Transaction Server for z/OS and IBM WebSphere® Application Server, including connections in CICS, configuring simple end-to-end connectivity (all platforms) with verification for remote and local mode applications, and adding security, XA support, and high availability.

The only reference available on Crystal Enterprise written by employees of Crystal Decisions, creator of Crystal Enterprise. Special Edition Using Crystal Enterprise 8.5 provides a comprehensive reference for the enterprise information delivery solution, Crystal Enterprise. This book will help readers understand where and how Crystal Enterprise can be applied to solve business problems. Written as a guide through planning, deploying, administering, and managing an enterprise reporting system based on Crystal Enterprise. Using practical examples of how Crystal Enterprise can be deployed in complex network environments to solve some of the toughest reporting and information delivery challenges. This book focuses on the entire solution that Crystal Enterprise and its supporting suite of report design tools (Crystal Reports and Crystal Analysis Professional) can deliver. This book picks up where standard Crystal Reports books leave off - it focuses on the actual delivery of interactive report content created with Crystal Reports.

IBM® Scale Out Network Attached Storage (SONAS) is a Scale Out NAS offering designed to manage vast repositories of information in enterprise environments requiring very large capacities, high levels of performance, and high availability. The IBM SONAS appliance provides a range of reliable, scalable storage solutions for a variety of storage requirements. These capabilities are achieved by using network access protocols such as NFS, CIFS, HTTPS, FTP, and SCP. Using built-in RAID technologies, all data is well protected with options to add additional protection through mirroring, replication, snapshots, and backup. These storage systems are also characterized by simple management interfaces that make their installation, administration, and troubleshooting uncomplicated and straightforward. This IBM Redbooks® publication is the companion to the IBM Redbooks publication, SONAS Concepts, Architecture, and Planning Guide, SG24-7963. It is intended for storage administrators who have ordered their SONAS solution and are ready to install, customize, and use it. A quick start scenario takes you through common SONAS administration tasks to familiarize you with the SONAS system through the GUI and CLI. Backup and availability scenarios as well as best practices for setting up and troubleshooting hints and tips are included.

IBM® Cloud Private is an application platform for developing and managing containerized applications across hybrid cloud environments, on-premises and public clouds. It is an integrated environment for managing containers that includes the container orchestrator Kubernetes, a private image registry, a management console, and monitoring frameworks. This IBM Redbooks® publication covers tasks that are performed by IBM Cloud™ Private application developers, such as deploying applications, application packaging with helm, application automation with DevOps, using Microclimate, and managing your service mesh with Istio. The authors team has many years of experience in implementing IBM Cloud Private and other cloud solutions in production environments. Throughout this book, we used the approach of providing you the recommended practices in those areas. As part of this project, we also developed several code examples, which can be downloaded from the Redbooks GitHub web page. If you are an IBM Cloud Private application developer, this book is for you. If you are an IBM Cloud Private systems administrator, you can see the IBM Redbooks publication IBM Private Cloud Systems Administrator's Guide, SG248440.

This book takes a comprehensive look at Magento, a robust and flexible e-commerce platform built on the Zend framework. With more than 750,000 downloads, Magento is the fastest growing open source e-commerce solution. This book walks you through all of the steps necessary to build a fully functional Magento-based web site. It also includes information on managing products, customers, and orders. This book is directed at web site designers and developers, but will also be extremely useful for business owners who have web sites built on the Magento platform. Introduces you to Magento, the fastest-growing open-source e-commerce platform Demonstrates how to configure and use Magento Covers how to customize Magento and develop extensions for the Magento platform

This IBM® Redpaper™ publication provides a brief overview of cloud technology, and describes how, from a user perspective, IBM SmartCloud™ En-

try can help you access the benefits of the cloud. In particular, the product provides a comprehensive cloud software stack with capabilities that you otherwise might need to purchase separately as multiple products from multiple vendors. Businesses with an existing virtualized platform (IBM Power Systems™ with PowerVM® or IBM System x with VMware vSphere) can be transformed to a private cloud. IBM SmartCloud Entry makes this transformation possible. IBM SmartCloud Entry integrates with the IBM PureFlex™ System, so that clients with PureFlex System can also experience easier cloud-ready deployments. IBM SmartCloud Entry adds a self-service, user portal, and basic metering to your existing virtualized platform. Overall, IBM SmartCloud Entry delivers improved service levels and fast time-to-value results for receiving the benefits of a private cloud infrastructure. The four use cases demonstrate how easily IBM SmartCloud Entry can be deployed and the possibilities for improved efficiencies in your organization. The cases demonstrate cloud deployment in PureFlex, VMware, Power Systems and x86 environments, and a telecom company. Also described are two IBM SmartCloud Entry processes, showing the ease of provisioning and installing with this product. This paper is directed at decision-makers, such as CFOs, CIOs, CEOs, IT managers, systems administrators, enterprise architects, systems architects, and IBM Business Partners. Presales and post-sales technical staff can benefit from discussing this paper with clients and potential clients.

This IBM® Redbooks® publication provides information about the concepts, planning, and design of IBM WebSphere® Application Server V8.5 environments. The target audience of this book is IT architects and consultants who want more information about the planning and design of application-serving environments, from small to large, and complex implementations. This book addresses the packaging and features in WebSphere Application Server, and highlights the most common implementation topologies. It provides information about planning for specific tasks and components that conform to the WebSphere Application Server environment. Also in this book are planning guidelines for Websphere Application Server and WebSphere Application Server Network Deployment on distributed platforms. It also includes guidelines for WebSphere Application Server for IBM z/OS®. This book contains information about migration considerations when moving from previous releases. This book has been updated with the new features introduced with WebSphere Application Server V8.5.5.

Sealing is an age-old problem that dates back to our earliest attempts to create a more comfortable living environment. Prehistoric people used natural sealants such as earth, loam, grass, and reeds to protect the interior of their homes against the weather. Today's applications extend to a myriad of uses. The Handbook of Sealant Technology provide

The Definitive Guide to SOA: Oracle® Service Bus, Second Edition targets professional software developers and architects who know enterprise development but are new to enterprise service buses (ESBs) and service-oriented architecture (SOA) development. This is the first book to cover a practical approach to SOA using the BEA AquaLogic Service Bus tool. And it's written from the "source"—BEA Systems AquaLogic product lead Jeff Davies. This book provides hands-on information to developing SOA-driven applications with ESBs as central components. It also gives strategic guidance on SOA planning, web service life-cycle management, administration of an ESB, and security considerations. Author Jeff Davies is careful to cut through theory and get straight to demonstrating successful use of the product.

In an effort to increase its marketshare and threat to Windows NT, Oracle8 was ported to Linux in late 1998, opening the popular database to an additional 10 million Linux users worldwide. The availability of Oracle8 enables current Linux users to deploy enterprise-class applications at low cost and provides an alternative to Microsoft Windows NT. This book covers that marriage of the most popular database and the fastest growing operating system. * Complete coverage. Covers both Oracle8i and Oracle8i Lite, as well as Oracle Applications, Oracle Applications Server, and Oracle Developer * Organizations and Oracle database administrators will be looking for information on Linux as it gets adopted - this book fits the bill * Covers two growth markets and fills a need for information not covered elsewhere

Gallery director, artist, and lecturer Jackie Battenfield offers expert advice on how to develop a sustained and rewarding career as a visual artist.

Learn how to be an Essbase Administrator: 'ç Use the basics of the Smart View Add-in to retrieve and analyze data.' ç Build aggregate storage option and block storage option databases.' ç Tune and optimize aggregate storage option and block storage option databases.' ç Administer Essbase databases. ' ç Take advantage of all the new Essbase 9x and 11x features. This book focuses on Essbase development and administration. For a complete end user guide, please see Look Smarter Than You Are with Smart View and Essbase 11.

This IBM® Redpaper publication provides all the necessary steps to successfully install Red Hat OpenShift 4.4 on IBM Z® or LinuxONE servers. It also provides an introduction to OpenShift nodes, Red Hat Enterprise Linux CoreOS, and Ansible. The steps that are described in this paper are taken from the official pages of the Red Hat website. This IBM Redpaper publication was written for IT architects, IT specialists, and others who are interested in installing Red Hat OpenShift on IBM Z.

Network Security, Firewalls, and VPNs, third Edition provides a unique, in-depth look at the major business challenges and threats that are introduced when an organization's network is connected to the public Internet.

IBM® Scale Out Network Attached Storage (SONAS) is a scale out network-attached storage offering that is designed to manage vast repositories of information in enterprise environments that require large capacities, high levels of performance, and high availability. SONAS provides a range of reliable, scalable storage solutions for various storage requirements. These capabilities are achieved by using network access protocols such as Network File System (NFS), Common Internet File System (CIFS), Hypertext Transfer Protocol Secure (HTTPS), File Transfer Protocol (FTP), and Secure Copy Protocol (SCP). Using built-in RAID technologies, all data is well-protected with options to add more protection through mirroring, replication, snapshots, and backup. These storage systems are also characterized by simple management interfaces that make installation, administration, and troubleshooting uncomplicated and straightforward. This IBM Redbooks® publication is the companion to IBM SONAS Best Practices, SG24-8051. It is intended for storage administrators who have ordered their SONAS solution and are ready to install, customize, and use it. It provides backup and availability scenarios information about configuration and troubleshooting. This book applies to IBM SONAS Version 1.5.5. It is useful for earlier releases of IBM SONAS as well.

Ready to unlock the power of your data? With this comprehensive guide, you'll learn how to build and maintain reliable, scalable, distributed systems with Apache Hadoop. This book is ideal for programmers looking to analyze datasets of any size, and for administrators who want to set up and run

Hadoop clusters. You'll find illuminating case studies that demonstrate how Hadoop is used to solve specific problems. This third edition covers recent changes to Hadoop, including material on the new MapReduce API, as well as MapReduce 2 and its more flexible execution model (YARN). Store large datasets with the Hadoop Distributed File System (HDFS) Run distributed computations with MapReduce Use Hadoop's data and I/O building blocks for compression, data integrity, serialization (including Avro), and persistence Discover common pitfalls and advanced features for writing real-world MapReduce programs Design, build, and administer a dedicated Hadoop cluster—or run Hadoop in the cloud Load data from relational databases into HDFS, using Sqoop Perform large-scale data processing with the Pig query language Analyze datasets with Hive, Hadoop's data warehousing system Take advantage of HBase for structured and semi-structured data, and ZooKeeper for building distributed systems

Visualization involves constructing graphical interfaces that enable humans to understand complex data sets; it helps humans overcome their natural limitations in terms of extracting knowledge from the massive volumes of data that are now routinely connected. The best argument for scientific visualization is that today's researchers must consume ever higher volumes of numbers that gush, as if from a fire hose, out of supercomputer simulations or high-powered scientific instruments. If researchers try to read the data, usually presented as vast numeric matrices, they will take in the information at snail's pace. If the information is rendered graphically, however, they can assimilate it at a much faster rate Rapid advances in 3-D scientific visualization have made a major impact on the display of data/information. These advances have been supported by advances in computing power and graphics programming techniques, which combined have brought the tools of visualization to a multidisciplinary audience of both researchers and practitioners from all engineering disciplines, as well as the physical, social and life sciences. * Edited by two of the best known people in the world on the subject; chapter authors are authoritative experts in their own fields; * Covers a wide range of topics, in 47 chapters, representing the state-of-the-art of scientific visualization.

IBM® WebSphere® Application Server V8.5 includes a Liberty profile, which is a highly composable, dynamic application server profile. It is designed for two specific use cases: Developers with a smaller production runtime, and production environments. For developers, it focuses on the tasks that a developer does most frequently, and makes it possible for the developer to complete those tasks as quickly and as simply as possible. For production environments, it provides a dynamic, small footprint runtime to be able to maximize system resources. This IBM Redbooks® publication targets administrators of Liberty environments. It provides the information needed to create, configure, and manage Liberty servers. It includes information about managing multiple servers in an installation, including the use of the new administrative capabilities introduced in WebSphere Application Server V8.5.5.7. The following publications are companion publications for this book: WebSphere Application Server: New Features in V8.5.5, REDP-4870 WebSphere Application Server V8.5.5 Technical Overview, REDP-4855 IBM WebSphere Application Server V8.5 Concepts, Planning, and Design Guide, SG24-8022 WebSphere Application Server Liberty Profile Guide for Developers, SG24-8076

Practical Handbook of Ground Water Monitoring covers the complete spectrum of state-of-the-science technology applied to investigations of ground water quality. The emphasis of the book is on the practical application of current technology, and minimum theory is discussed. The subject of ground water monitoring is covered in great detail, from the Federal regulations that require monitoring to the various direct and indirect methods of investigating the subsurface - to the analysis and interpretations of complex sets of water quality data. All aspects of ground water quality investigations, including site assessment techniques, health and safety considerations and equipment decontamination, are dealt with in a logical order that will allow the reader to follow along in the same thought progression as a field project. The experiences and expertise of more than 30 practicing scientists and engineers combine to make this book the most comprehensive reference compiled on the topic of ground water monitoring.

Flash Remoting MX lets developers easily integrate rich Macromedia Flash content with applications that are built using Macromedia ColdFusion MX, Microsoft .NET, Java, PHP, or SOAP-based web services. The result is complex client/server applications that more closely resemble desktop applications than traditional web pages. Gone is the click/wait/reload approach of HTML. Your web application uses Flash as the front end while Flash Remoting handles the communication behind the scenes with the application server. All the end user knows is that it's fast and flexible. The potential uses for Flash Remoting are endless. Flash Remoting: The Definitive Guide will help you understand this breakthrough technology and use it to build your own Rich Internet Applications (RIAs). Build applications that connect to a database, file system, or other server-side technologies. Or, use Flash Remoting to create: online stores that feature catalogs and shopping cart systems sound and video clip libraries banner ads with built-in shopping carts, click-through tracking, and site search capabilities new controls that can be used in place of HTML extensions to Flash, Dreamweaver, Fireworks, and more front-ends to databases for administrators The book begins with Flash Remoting basics: setup, installation and an introduction to its underlying concepts. Next, you'll explore the Flash's User Interface components as they relate to Flash Remoting. Then, you'll gain insights into Flash Remoting internals and the Remoting API. The book is rich with examples that you will be able to run on your own system. The next section focuses on the server-side environment that you'll use for your applications. Individual chapters cover Flash Remoting with ColdFusion, Server-Side ActionScript, Java, ASP.NET, and PHP. The last section covers more advanced Flash Remoting techniques, such as calling web services from Flash Remoting, extending objects and UI controls, best practices, and debugging. Plus there is a detailed chapter demonstrating a real-world application. The book concludes with a Flash Remoting API reference. Developers who are looking to create Rich Internet Applications with Flash will find Flash Remoting: The Definitive Guide indispensable.

MCSA GUIDE TO MICROSOFT SQL SERVER 2012 (Exam #70-462) provides a thorough introduction to essential database administration principles and practices to prepare readers for certification and career success. Ideal for formal courses, self-study, or professional reference, this detailed text employs a lab-based approach to help users develop the core knowledge and practical skills they need to master Microsoft SQL Server administration in an enterprise environment and pass Microsoft Certified Solutions Associate Exam 70-462. The text opens with information on the latest version of Microsoft SQL Server, offering step-by-step guidance on selecting an edition and completing initial installation and configuration. Several chapters then explore key topics such as database programming, security, performance tuning, backup and recovery, data integration, and system monitoring. Within each chapter, numerous resources and features reinforce teaching and learning, including learning objectives, summaries of key ideas, hands-on activities, discussion questions, definitions of important terms, and case studies to provide real-world context. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Over 1,600 total pages Application and Use: Commanders, security and antiterrorism personnel, planners, and other members of project planning teams will use this to establish project specific design criteria for DoD facilities, estimate the costs for implementing those criteria, and evaluating both the design criteria and the options for implementing it. The design criteria and costs will be incorporated into project programming documents.