Clientserver Survival Guide 3rd Edition Crakin

Like many other incipient technologies, Web services are still surrounded by a substantial level of noise. This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be. On the one hand, multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services. On the other hand, the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term. These factors make it extremely difficult to get a coherent picture of what Web services are, what they contribute, and where they will be applied. Alonso and his co-authors deliberately take a step back. Based on their academic and industrial experience with middleware and enterprise application integration systems, they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware, necessary to meet the challenges of the Web and of B2B application integration. Rather than providing a reference guide or a "how to write your first Web service" kind of book, they discuss the main objectives of Web services, the challenges that must be faced to achieve them, and the opportunities that this novel technology provides. Established, as well as recently proposed, standards and techniques (e.g., WSDL, UDDI, SOAP, WS-Coordination, WS-Transactions, and BPEL), are then examined in the context of this discussion in order to emphasize their scope, benefits, and shortcomings. Thus, the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies.

"This book provides relevant theoretical frameworks and empirical research findings in the area hydroinformatics to assist professionals to improve their understanding of the development and use of decision support tools to support decision making and integrated water management at different organizational levels and domains"--Provided by publisher.

This second edition of Michael Kofler's acclaimed MySQL book has updated and expanded to cover MySQL 4.0, the most recent production release of the popular open source database, which boasts more than 4 million users worldwide. Like the first edition, this revision, which has been renamed to reflect the breadth and depth of Kofler's coverage of the topic, provides a thorough introduction to the installation, configuration, implementation, and administration of MySQL. In addition, Kofler demonstrates how you can use MySQL in conjunction with various other technologies to create database-driven websites, and he gives practical advice on database design. Kofler also covers what's coming up next in MySQL 4.1.

This book constitutes the refereed proceedings of the First International

Conference on Mobile Data Access, MDA'99, held in Hong Kong, China, in December 1999. The 20 revised full papers presented were carefully selected from a total of 39 submissions. The papers are organized in sections on wireless networks and communications, transaction processing in mobile environments, ubiquitous information services, mobile data replication and caching, and mobility and location management.

Describing state-of-the-art solutions in distributed system architectures, Integration of Services into Workflow Applications presents a concise approach to the integration of loosely coupled services into workflow applications. It discusses key challenges related to the integration of distributed systems and proposes solutions, both in terms of theoretical aspects such as models and workflow scheduling algorithms, and technical solutions such as software tools and APIs. The book provides an in-depth look at workflow scheduling and proposes a way to integrate several different types of services into one single workflow application. It shows how these components can be expressed as services that can subsequently be integrated into workflow applications. The workflow applications are often described as acyclic graphs with dependencies which allow readers to define complex scenarios in terms of basic tasks. Presents state-of-the-art solutions to challenges in multi-domain workflow application definition, optimization, and execution Proposes a uniform concept of a service that can represent executable components in all major distributed software architectures used today Discusses an extended model with determination of data flows among parallel paths of a workflow application Since workflow applications often process big data, the book explores the dynamic management of data with various storage constraints during workflow execution. It addresses several practical problems related to data handling, including data partitioning for parallel processing next to service selection and scheduling, processing data in batches or streams, and constraints on data sizes that can be processed at the same time by service instances. Illustrating several workflow applications that were proposed, implemented, and benchmarked in a real BeesyCluster environment, the book includes templates for multidisciplinary workflow applications that readers can use in a wide range of contexts.

* Provides case studies in each chapter illustrating how principles work in practice. * Compares strengths and weaknesses of off-the-shelf software packages.

The World Wide Web presents many new, exciting prospects for geographic information systems, but also numerous technical, practical and organizational challenges. Users no longer require specialized and expensive hardware, software and data, and they can access a GIS readily from almost anywhere, using off-the-shelf browser software. An onli

This book places spatial data within the broader domain of information technology (IT) while providing a comprehensive and coherent explanation of the guiding principles, methods, implementation and operational management of

spatial databases within the workplace. The text explains the key concepts, issues and processes of spatial data implementation and provides a holistic management perspective.

Intelligent agents will be the necessity of the coming century. Software agents will pilot us through the vast sea of information, by communicating with other agents. A group of cooperating agents may accomplish a task which cannot be done by any subset of them. This volume consists of selected papers from PRIMA'99, the second Paci c Rim InternationalWorkshop on Multi-Agents, held in Kyoto,Japan, on Dec- ber 2-3, 1999. PRIMA constitutes a series of workshops on autonomous agents and mul- agent systems, integrating the activities in Asia and the Pacic rim countries, such as MACC (Multiagent Systems and Cooperative Computation) in Japan, and the Australian Workshop on Distributed Arti cial Intelligence. The r st workshop, PRIMA'98, was held in conjunction with PRICAI'98, in Singapore. The aim of this workshop is to encourage activities in this e ld, and to bring togetherresearchersfromAsiaandPacic rimworkingonagentsandmultiagent issues. Unlike usual conferences, this workshop mainly discusses and explores scienti c and practical problems as raised by the participants. Participation is thus limited to professionals who have made a signi cant contribution to the topics of the workshop. Topics of interest include, but are not limited to: - multi-agent systems and their applications - agent architecture and its applications - languages for describing (multi-)agent systems - standard (multi-)agent problems - challenging research issues in (multi-)agent systems - communication and dialogues - multi-agent learning - other issues on (multi-)agent systems We received 43 submissions to this workshop from more than 10 countries.

"This timely book sets the bar for Object Transaction Monitors (OTMs). Then it provides in-depth comparisons of the leading OTM contenders-including the dirt and the gotchas. As a result, you get a $3,000 analyst report on the current state of OTMs for the price of a book. How could you pass it up? This book is must reading for anyone involved in middleware." -Robert Orfali, Author Client/Server Survival Guide, Third Edition. Are Object Monitors (OMs) really the universal alternative to multiple middleware products? What do they offer and how do they compare to other products on the market? How seriously should I take vendors' claims when it comes to our unique requirements? How do I select and use the best OM products for our current and future needs? This essential guide supplies the answers to these and all your questions concerning OM technology. You get impartial assessments of all the leading OM products, including: * IBM ComponentBroker. * Microsoft MTS. * Inprise ITS. * BEA M3. * Iona OrbixOTM. * Hitachi TPBroker. For each product, the authors describe: its architecture and integration with other vendor products; its conformance with CORBA and COM; how each works in real-world business applications; and marketing strategy. All this information is based on in-depth testing and hands-on investigation. You also get a framework for choosing the best product for your overall business, pinpointing application variances, recognizing similar product sets, and identifying future trends. On the companion Web site you'll find: * Regular product updates. * The latest OM technology news. * Links to other sites of interest.

Looks at a successful software project and provides details for software development for clients using object-oriented design and programming.

* How to save time by reusing software components

Recent years have witnessed the appearance of new paradigms for designing distributed applications where the application components can be relocated - namically across the hosts of the network. This form of code mobility lays the foundation for a new generation of technologies, architectures, models, and - plications in which the location at which the code is executed comes under the control of the designer, rather than simply being a con?guration accident. Among the various ?avors of mobile code, the mobile agent paradigm has become

particularly popular. Mobile agents are programs able to determine - tonomously their own migration to a di?erent host, and still retain their code and state (or at least a portion thereof). Thus, distributed computations do not necessarily unfold as a sequence of requests and replies between clients and - mote servers, rather they encompass one or more visits of one or more mobile agents to the nodes involved. Mobile code and mobile agents hold the potential to shape the next gene- tion of technologies and models for distributed computation. The ?rst steps of this process are already evident today: Web applets provide a case for the least sophisticated form of mobile code, Java-based distributed middleware makes - creasing use of mobile code, and the ?rst commercial applications using mobile agents are starting to appear. The #1 Client/Server book, now completely updated and expanded! "It's savvy, informative, and entertaining as anything you are likely to read on the subject. Client/server isn't one technology but many- remote SQL, TP, message-oriented groupware, distributed objects, and so on. Like the proverbial blind man feeling the elephant, most of us have a hard time seeing the whole picture. The authors succeed brilliantly in mapping the elephant."-John Udell, Byte, "Winner, JOLT Product Excellence Award."-Software Development "The scope and depth of topics covered in the Guide, with its straightforward and often humorous delivery, make this book required reading for anyone who deals with computers in today's corporate environment."-Bob Gallagher, PC Week "Absolutely the finest book on client/server on the market today. It's got great advice, and is well written and fun to read."-Richard Finkelstein The critics agree-this is the best source for anyone looking to understand and make informed decisions about client/server technology. In this Third Edition of their award-winning book, authors Orfali, Harkey, and Edwards combine detailed technical explanations with their unique brand of offbeat humor, clever cartoons, controversial soapboxes, and witty quotes to inform, educate, and entertain. This information-packed Survival Guide takes you on a sweeping tour of the world of client/server. From operating systems and communications, to application servers that incorporate database, transaction processing, groupware, and objects, to the Internet and the World Wide Web and their role in the new generation of client/server and object management, this book covers it all. In their other lives: Robert Orfali and Dan Harkey head San Jose State University's Client/Server and Distributed Objects Master's program and lab. Dan also works for IBM as a distributed objects consultant. Jeri Edwards is Vice President of Strategy and Product Planning at BEA Systems. Wiley Computer Publishing Timely. Practical. Reliable. Visit our Web site at www.wiley.com/compbooks/
Comprehensive coverage of critical issues related to information science and technology.
In this book the author makes a case for legalized physician-assisted dying. Using the latest data from Oregon and the Netherlands, he puts a new slant on perennial debate topics such as "slippery slopes," "the integrity of medicine," and "sanctity of life." This book provides an in-depth look at how we die in America today. It examines the shortcomings of our end-of-life system. You will learn about terminal torture in hospital ICUs and about the alternatives: hospice and palliative care. The author scrutinizes the good, the bad, and the ugly. He provides a critique of the practice of palliative sedation. The book makes a strong case that assisted dying complements hospice. By providing both, Oregon now has the best palliative-care system in America. This book, above all, may help you or someone you care about navigate this strange landscape we call "end of life." It can be an informed guide to "a good death" in the age of hospice and high-tech medical intervention.
Advanced Topics in Information Resources Management is a series of books that features the most current research findings in all aspects of information resources management. From successfully implementing technology change to understanding the human factors in IT utilization, these volumes address many of the managerial and organizational applications and implications of information technology in organizations. Volume 5 provides information technology researchers, scholars, educators, and practicing managers with the latest research

on managing the technological, organizational, and human aspects of information utilization and management. This volume presents current trends and challenges in implementing and strengthening information resources strategies in organizations worldwide.

Buy the print version of Microsoft SQL Server 2012 Unleashed and get the eBook version for free! eBook version includes chapters 44-60 not included in the print. See inside the book for access code and details. With up-to-the-minute content, this is the industry's most complete, useful guide to SQL Server 2012. You'll find start-to-finish coverage of SQL Server's core database server and management capabilities: all the real-world information, tips, guidelines, and samples you'll need to create and manage complex database solutions. The additional online chapters add extensive coverage of SQL Server Integration Services, Reporting Services, Analysis Services, T-SQL programming, .NET Framework integration, and much more. Authored by four expert SQL Server administrators, designers, developers, architects, and consultants, this book reflects immense experience with SQL Server in production environments. Intended for intermediate-to-advanced-level SQL Server professionals, it focuses on the product's most complex and powerful capabilities, and its newest tools and features. Understand SQL Server 2012's newest features, licensing changes, and capabilities of each edition Manage SQL Server 2012 more effectively with SQL Server Management Studio, the SQLCMD command-line query tool, and Powershell Use Policy-Based Management to centrally configure and operate SQL Server Utilize the new Extended Events trace capabilities within SSMS Maximize performance by optimizing design, queries, analysis, and workload management Implement new best practices for SQL Server high availability Deploy AlwaysOn Availability Groups and Failover Cluster Instances to achieve enterprise-class availability and disaster recovery Leverage new business intelligence improvements, including Master Data Services, Data Quality Services and Parallel Data Warehouse Deliver better full-text search with SQL Server 2012's new Semantic Search Improve reporting with new SQL Server 2012 Reporting Services features Download the following from informit.com/title/9780672336928: Sample databases and code examples

A software testing survival guide for those who work in Internet time With Internet applications spreading like wildfire, the field of software testing is increasingly challenged by the brave new networked world of e-business. This book brings you up to speed on the technologies, testing concepts, and tools you'll need to run e-business applications on the Web. Written by Hung Nguyen, a coauthor of the bestselling software testing book of all time, Testing Computer Software, this new guide takes you to the next level, helping you apply your existing skills to the testing of B2B (Business-to-Business), B2C (Business-to-Consumer), and internal Web-based applications. You'll learn how to test transactions across networks, explore complex systems for errors, and work efficiently with the many components at play--from servers to browsers to protocols. Most importantly, you'll get detailed instructions on how to carry out specific test types along with case studies and error examples for each test. Software testers, test leads and test managers, QA analysts and managers, and IT managers and staff will find this an invaluable resource for their testing projects. With an emphasis on achievable goals and necessary rather than nice-to-have features, Testing Applications on the Web provides: An analysis of the Web-application model and the difference between Web testing and traditional testing A tutorial on the methodology and techniques for networking technologies and component-based testing Strategies for test planning, test case designing, and error analysis on the Web Effective real-world practices for UI (User Interface) tests, security tests, installation tests, load and stress tests, database tests, and more A survey of commercial tools and a sampling of proven test matrices and templates

This book presents analysis techniques for quantifying and projecting every element of your e-business site's performance and planning for the capacity you need.

Green Technologies: Concepts, Methodologies, Tools and Applications assembles the most up-

to-date collection of research results and recent discoveries in environmental and green technology. This comprehensive anthology covers a wide range of topics, i
Provides comprehensive, in-depth coverage of all issues related to knowledge management, including conceptual, methodological, technical, and managerial issues. Presents the opportunities, future challenges, and emerging trends related to this subject.
Join a cast of Martians on this witty, comprehensive, and now completely updated tour of the client/server world. From operating systems and communication to applications architectures that incorporate database, transaction processing, groupware, and objects, this ultimate survival guide is the reader's best source for the big picture view of the world of client/server.
For over 20 years, Software Engineering: A Practitioner's Approach has been the best selling guide to software engineering for students and industry professionals alike. The sixth edition continues to lead the way in software engineering. A new Part 4 on Web Engineering presents a complete engineering approach for the analysis, design, and testing of Web Applications, increasingly important for today's students. Additionally, the UML coverage has been enhanced and signficantly increased in this new edition. The pedagogy has also been improved in the new edition to include sidebars. They provide information on relevant softare tools, specific work flow for specific kinds of projects, and additional information on various topics. Additionally, Pressman provides a running case study called "Safe Home" throughout the book, which provides the application of software engineering to an industry project. New additions to the book also include chapters on the Agile Process Models, Requirements Engineering, and Design Engineering. The book has been completely updated and contains hundreds of new references to software tools that address all important topics in the book. The ancillary material for the book includes an expansion of the case study, which illustrates it with UML diagrams. The On-Line Learning Center includes resources for both instructors and students such as checklists, 700 categorized web references, Powerpoints, a test bank, and a software engineering library-containing over 500 software engineering papers.TAKEAWY HERE IS THE FOLLOWING:1. AGILE PROCESS METHODS ARE COVERED EARLY IN CH. 42. NEW PART ON WEB APPLICATIONS --5 CHAPTERS
This book describes the theory, algorithms, and practical implementation techniques behind transaction processing in information technology systems.
Hospital information systems (HIS) have become integral tools in the management of a hospital's medical and administrative information. With illustrated case studies, this book emphasizes clinical information systems (CIS) and their use in the direct management of the patient. Topics include the medical record, security, resource amangement, and imopaging integration.
Each chapter covers a different database component, starting with the lowest level of abstraction (the disk and file manager) and ending with the highest (the JDBC client interface); further, the respective chapter explains the main issues concerning the component, and considers possible design decisions. As a result, the reader can see exactly what services each component provides and how it interacts with the other components in the system. By the end of this part, s/he will have witnessed the gradual development of a simple but completely functional system. The remaining four chapters then focus on efficient query processing, and focus on the sophisticated techniques and algorithms that can replace the simple design choices described earlier. Topics include indexing, sorting, intelligent buffer usage, and query optimization. This text is intended for upper-level undergraduate or beginning graduate courses in Computer Science.

Poorly performing enterprise applications are the weakest links in a corporation's management chain, causing delays and disruptions of critical business functions. This groundbreaking book frames enterprise application performance engineering not as an art but as applied science built on model-based methodological foundation. The book introduces queuing models of enterprise application that visualize, demystify, explain, and solve system performance issues. Analysis of these models will help to discover and clarify unapparent connections and correlations among workloads, hardware architecture, and software parameters.

E-Commerce and E-Government has become known as the wave of the future for business all over the world. Whether large, small, or just starting, E-Commerce and E- Government have been the easier and more sufficient way to handle business. This book brings together revised and expanded versions of eighteen papers selected from the 2003 International Conference on Management of e-Commerce and e-Government. This book presents leading edge research in this new and exciting field. The ICMeCG 2003 has initially received a total of 176 submissions from Australia, China, Norway, UK, and USA. Unfortunately, risk of SARS prevented many authors from actually participating in the conference. The Program Committee of ICMeCG selected papers through a careful reviewing process. Although some papers remain devoted to conceptual and general discussion about e-Commerce management, many papers have adopted quantitative or formal analysis methods in their research. Results presented in these papers provide an important contribution, especially as compared with earlier research based on qualitative methods alone. This book presents cutting edge research in this new and exciting field.

The concept of CAST as Computer Aided Systems Theory, was introduced by F. Pichler of Linz in the late 80's to include those computer theoretical and practical developments as tools to solve problems in System Science. It was considered as the third component (the other two being CAD and CAM) that will provide for a complete picture of the path from Computer and Systems Sciences to practical developments in Science and Engineering. The University of Linz organized the ?rst CAST workshop in April 1988, which demonstrated the acceptance of the concepts by the scienti?c and technical community. Next, the University of Las Palmas de Gran Canaria joined the University of Linz to organize the ?rst international meeting on CAST, (Las Palmas February 1989), under the name EUROCAST'89, that was a very successful gathering of systems theorists, computer scientists and engineers from most of European countries, North America and Japan.

ItwasagreedthatEUROCASTinternationalconferenceswouldbeorganized every two years. Thus, the following EUROCAST meetings took place in Krems (1991), Las Palmas (1993), Innsbruck (1995), Las Palmas (1997), Vienna (1999) and Las Palmas(2001), in addition to an extra-European CAST Conference in Ottawain1994.SelectedpapersfromthosemeetingswerepublishedbySpringer-

Verlag Lecture Notes in Computer Science nos. 410, 585, 763, 1030, 1333, 1728 and 2178 and in several special issues of Cybernetics and Systems: an Internatnal Journal. EUROCAST and CAST meetings are de?nitely consolidated, as it is demonstrated by the number and quality of the contributions over the years. This book covers all you need to know to model and design software applications from use cases to software architectures in UML and shows how to apply the COMET UML-based modeling and design method to real-world problems. The author describes architectural patterns for various architectures, such as broker, discovery, and transaction patterns for service-oriented architectures, and addresses software quality attributes including maintainability, modifiability, testability, traceability, scalability, reusability, performance, availability, and security. Complete case studies illustrate design issues for different software architectures: a banking system for client/server architecture, an online shopping system for service-oriented architecture, an emergency monitoring system for component-based software architecture, and an automated guided vehicle for real-time software architecture. Organized as an introduction followed by several short, self-contained chapters, the book is perfect for senior undergraduate or graduate courses in software engineering and design, and for experienced software engineers wanting a quick reference at each stage of the analysis, design, and development of large-scale software systems.
Provides information on designing effective security mechanisms for e-commerce sites, covering such topics as cryptography, authentication, information classification, threats and attacks, and certification.
An overview of the industry covers the history of computing technology, state of the art hardware, software development, and network communications infrasructures, protocols, and applications.
The challenge of managing a business enterprise today is to ensure that it can remain efficient and competitive in a dynamic marketplace characterized by high competition, unstable demands, heterogeneous market segments, and short product life cycles. Increasing the pace of new product introduction enables dealing with shorter product lives. To sustain competitiveness, a firm has to be innovative as well as quick to respond to the changing customer needs in order to provide better and faster products to market than competitors. New product development (NPD) is considered as a process of learning. Successful NPD projects typically rely on knowledge and experience of multi-function teams. In addition to corporate strategy and organization learning, the external factors such as, market and competitive conditions also play a big role in driving business strategies. The results from the empirical research study reported shows that companies implementing innovation strategy are more competitive in the long run while those that follow customer-responsive strategy are more likely to have higher return on investment within a shorter time. In order to achieve both sustainable competencies and also meet customer needs in the changing market environment today, a company should adapt to the benefits of both strategies.

Kofler's MySQL introduces the many facets of MySQL, guiding the reader through the installation, configuration, implementation and administration of the world's most popular Open Source database server. Intermingling MySQL instruction with valuable general database design philosophy, Kofler also demonstrates how to use MySQL in conjunction with various other technologies (PHP, Perl, ODBC) in order to Web-enable your database information. MySQL proves to be an irreplaceable resource for MySQL novices and experts alike. The next frontier for wireless LANs is 802.11ac, a standard that increases throughput beyond one gigabit per second. This concise guide provides in-depth information to help you plan for 802.11ac, with technical details on design, network operations, deployment, and monitoring. Author Matthew Gast—an industry expert who led the development of 802.11-2012 and security task groups at the Wi-Fi Alliance—explains how 802.11ac will not only increase the speed of your network, but its capacity as well. Whether you need to serve more clients with your current level of throughput, or serve your existing client load with higher throughput, 802.11ac is the solution. This book gets you started. Understand how the 802.11ac protocol works to improve the speed and capacity of a wireless LAN Explore how beamforming increases speed capacity by improving link margin, and lays the foundation for multi-user MIMO Learn how multi-user MIMO increases capacity by enabling an AP to send data to multiple clients simultaneously Plan when and how to upgrade your network to 802.11ac by evaluating client devices, applications, and network connections Peer-to-peer (P2P) networks – decentralized group structures allowing anyone to easily download and share resources online – already play a critical role in the distribution of digital content. Most of the debate on P2P heretofore has focused on copyright issues. However, as the basis for legitimate business models a number of companies have already quietly embraced, P2P has a largely unknown and underestimated impact on taxation, with vast repercussions on the development of mature, profitable markets. This book analyses the current framing for digital and media supplies provided via P2P technologies through the lens of an interdisciplinary approach drawing on tax law, computer science, economics, copyright law, and business studies. VAT concepts such as those of economic activity and taxable person, taxable transactions, consideration, barter and taxable amount, and territoriality rules are discussed in connection with P2P, as is the evaluation of VAT liability for P2P operations in the presence of copyright infringement. Topics and issues considered include: - centralized and decentralized P2P networks; - free-riding problems; - identifying actors in P2P networks for VAT purposes; - P2P and place of supply; and - pros and cons of integrating P2P with taxation regimes and especially VAT systems. The analysis draws on a vast range of sources, including EU legislation and case law, tax law literature and doctrine, international conventions and treaties, Council of Europe and OECD documents, ECHR case law, and official documents and cases from key jurisdictions worldwide, offering the first thoroughly grounded approach to

overcoming the lack of understanding and awareness of ongoing changes currently separating the digital economy and traditional taxation systems, and a solid platform for discussion to the diverse communities of researchers and professionals interested in P2P.

Unmasking Project Management helps professionals in information technology (IT) and business identify successful approaches to management of information systems (MIS) that will work for their organizations and projects.

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