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You can choose several data access frameworks when building Java enterprise applications that work with relational databases. But what about big data? This hands-on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop. Through several sample projects, you'll learn how Spring Data provides a consistent programming model that retains NoSQL-specific features and capabilities, and helps you develop

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Hadoop applications across a wide range of use-cases such as data analysis, event stream processing, and workflow. You'll also discover the features Spring Data adds to Spring's existing JPA and JDBC support for writing RDBMS-based data access layers. Learn about Spring's template helper classes to simplify the use of database-specific functionality Explore Spring Data's repository abstraction and advanced query functionality Use Spring Data with Redis (key/value store), HBase (column-family), MongoDB (document database), and Neo4j (graph database) Discover the GemFire distributed data grid solution Export Spring Data JPA-managed entities to the Web as RESTful web services Simplify the development of HBase applications, using a lightweight object-mapping framework Build example big-data

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pipelines with Spring Batch and Spring Integration

As adults, we are all continually involved in learning, with increasing numbers of us engaged in more formalized forms of learning; that is, in education or training. All those involved in the broad field of adult education and training will come into contact with many specialist ideas or concepts. It is often assumed of students that they already have a general understanding of these concepts, their meanings, applicability and inter-relationships. This is not always the case. This book examines in detail over forty of these key concepts, ranging from community education and experiential learning to competence and access. It presents a clear, analytical discussion in jargon-free language. It is, therefore, indispensable to all students and

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practitioners of adult education and training.

States have historically led in rights expansion for marginalized populations and remain leaders today on the rights of undocumented immigrants.

Market players put their jobs on the line with every position they take. Any fixed income investor in the circumstance of being granted one wish would probably want to know what interest rates are going to do in the future. Economists and others have constructed models of interest rate behaviour, but no model works in all circumstances. The main aim of this book is to straddle the different worlds of theoretical models and practical market experience, while offering an interdisciplinary framework for fixed income investing and trading. A focussed but very practical approach to

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fixed-income investment, aimed at practitioner market Contains investment checklists and interviews with market practitioners Offers an interdisciplinary framework for fixed-income investing and trading, and combines worlds of theoretical models and practical market experience

Citizenship Reimagined

Analytical perspectives

Embedded Multitasking

Musicology: The Key Concepts

Fixed Income Strategy

Key Concepts in Adult Education and Training

The Linguistics of Newswriting focuses on text production in journalistic media as both a socially relevant field of language use and as a strategic field of applied linguistics. The book discusses and paves the way for scientific projects in the emerging field

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of linguistics of newswriting. From empirical micro and theoretical macro perspectives, strategies and practices of research development and knowledge transformation are discussed. Thus, the book is addressed to researchers, teachers and coaches interested in the linguistics of professional writing in general and newswriting in particular. Together with the training materials provided on the internet [www.newswriting.net](http://www.newswriting.net), the book will also be useful to anyone who wants to become a more "discerning consumer" (Perry, 2005) or a more reflective producer of language in the media.

CompTIA Network+ N10-008 Cert Guide, Deluxe Edition contains proven study features that enable you to succeed on the exam the first time.

Best-selling author and expert

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instructor Anthony Sequeira shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes: A test-preparation routine proven to help you pass the exams Do I Know This Already? quizzes, which enable you to decide how much time you need to spend on each section Chapter-ending and part-ending exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson IT Certification Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports A free copy of the CompTIA Network+ Simulator Lite software, complete with meaningful lab exercises that help you

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hone your hands-on skills with the command-line interface for routers and switches More than minutes of video mentoring from the author A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, video instruction, and hands-on labs, this authorized study guide helps you master the concepts and techniques that ensure your exam success. DELUXE EDITION also includes: CompTIA Network+ N10-800 Hands-on Network Simulator CompTIA Network+ N10-800 Cert Guide Premium Edition eBook and



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In an embedded system, firmware is the software that directly interfaces with the microcontroller, controlling the system's function. The major forces driving the embedded firmware development process today are reduced development times, increased complexity, and the need to handle multiple tasks simultaneously. These forces translate into strenuous design requirements for embedded engineers and programmers. Many low-level embedded microcontroller designs have insufficient memory and/or architectural limitations that make the use of a real-time operating system impractical. The techniques presented in this book allow the design of robust multitasking firmware through the use of interleaved state machines. This book presents a complete overview of

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multitasking terminology and basic concepts. Practical criteria for task selection and state machine design are also discussed. Designing multitasking firmware is arduous, complex and fraught with potential for errors, and there is no one, "standard way to do it. This book will present a complete and well-organized design approach with examples and sample source code that designers can follow. Covers every aspect of design from the system level to the component level, including system timing, communicating with the hardware, integration and testing.

The X-29 was an unusual aircraft with a truly unique silhouette. It combined many features that challenged the technologies of its day and represented special problems for the developers and the team of testers

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responsible for documenting its features and design goals. This book is a look at the "big picture" of what this team accomplished in a relatively fast-paced test program involving the truly unique X-29.

Budget of the United States

Government

Spring Data

Software Engineering

A Practitioners Approach

Satellite Networking

Game Theory

**Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is**

organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity

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to apply the theory to the design and analysis of control systems.

Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with a concise description of rational decision making, and goes on to discuss

strategic and extensive form games with complete information, Bayesian games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision

problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that

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focus on how to formalize  
informal situations and  
then analyze them.

Introduces the core ideas  
and applications of game  
theory Covers static and  
dynamic games, with  
complete and incomplete  
information Features a  
variety of examples,  
applications, and  
exercises Topics include  
repeated games,  
bargaining, auctions,  
signaling, reputation, and  
information transmission  
Ideal for advanced  
undergraduate and  
beginning graduate  
students Complete



solutions available to  
teachers and selected  
solutions available to  
students

How can we design  
transport environments  
that cater to the  
situation awareness needs  
of different end-users?  
This book answers this  
question by showcasing how  
state-of-the-art human  
factors theory and methods  
can be used to understand  
how situation awareness  
differs across drivers,  
cyclists, motorcyclists,  
and pedestrians and  
creates new designs that  
cater to these diverse

situation awareness needs. Written by experts in the field and based on a major program of work funded by the Australian Research Council, this book outlines the distributed situation awareness model and provides practical guidance on how to study situation awareness naturalistically and how to create designs that support, rather than hinder, situation awareness. The book closes by outlining outline a generic framework to support similar applications in other

areas, and discusses  
future applications in  
areas such as vehicle  
automation, artificial  
intelligence, and  
cybersecurity.

Designing Software  
Architectures will teach  
you how to design any  
software architecture in a  
systematic, predictable,  
repeatable, and cost-  
effective way. This book  
introduces a practical  
methodology for  
architecture design that  
any professional software  
engineer can use, provides  
structured methods  
supported by reusable

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chunks of design knowledge, and includes rich case studies that demonstrate how to use the methods. Using realistic examples, you'll master the powerful new version of the proven Attribute-Driven Design (ADD) 3.0 method and will learn how to use it to address key drivers, including quality attributes, such as modifiability, usability, and availability, along with functional requirements and architectural concerns. Drawing on their extensive experience, Humberto

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Cervantes and Rick Kazman guide you through crafting practical designs that support the full software life cycle, from requirements to maintenance and evolution. You'll learn how to successfully integrate design in your organizational context, and how to design systems that will be built with agile methods. Comprehensive coverage includes Understanding what architecture design involves, and where it fits in the full software development life cycle

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Mastering core design  
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concepts, principles, and  
processes Understanding  
how to perform the steps  
of the ADD method Scaling  
design and analysis up or  
down, including design for  
pre-sale processes or  
lightweight architecture  
reviews Recognizing and  
optimizing critical  
relationships between  
analysis and design  
Utilizing proven, reusable  
design primitives and  
adapting them to specific  
problems and contexts  
Solving design problems in  
new domains, such as  
cloud, mobile, or big data

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Routing Protocols  
Companion Guide  
Theory, Measurement, and  
Application to  
Intersection Design  
Document Computing  
Derivatives Analytics with  
Python  
Modern Control Systems

The growth of the Internet and the availability of enormous volumes of data in digital form have necessitated intense interest in techniques to assist the user in locating data of interest. The Internet has over 350 million pages of data and is expected to reach over one billion pages by the year 2000. Buried on the Internet are

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both valuable nuggets to answer questions as well as a large quantity of information the average person does not care about. The Digital Library effort is also progressing, with the goal of migrating from the traditional book environment to a digital library environment. The challenge to both authors of new publications that will reside on this information domain and developers of systems to locate information is to provide the information and capabilities to sort out the non-relevant items from those desired by the consumer. In effect, as we proceed down this path, it will be the computer that determines what we see versus the human being. The days of going to



a library and browsing the new book shelf are being replaced by electronic searching the Internet or the library catalogs. Whatever the search engines return will constrain our knowledge of what information is available. An understanding of Information Retrieval Systems puts this new environment into perspective for both the creator of documents and the consumer trying to locate information.

Two key policy goals in the health sector are equity and financial protection. New methods, data and powerful computers have led to a surge of interest in quantitative analysis that permits monitoring progress toward these objectives, and comparisons across countries.

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ADePT is a new computer program that streamlines and automates such work, ensuring that results are genuinely comparable and allowing them to be produced with a minimum of programming skills.

This book provides a step-by-step guide to the use of ADePT for quantitative analysis of equity and financial protection in the health sector

Totally updated for 2011, here's the ultimate study guide for the CISSP exam. Considered the most desired certification for IT security professionals, the Certified Information Systems Security Professional designation is also a career-booster. This comprehensive study guide covers

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every aspect of the 2011 exam and the latest revision of the CISSP body of knowledge. It offers advice on how to pass each section of the exam and features expanded coverage of biometrics, auditing and accountability, software security testing, and other key topics. Included is a CD with two full-length, 250-question sample exams to test your progress. CISSP certification identifies the ultimate IT security professional; this complete study guide is fully updated to cover all the objectives of the 2011 CISSP exam Provides in-depth knowledge of access control, application development security, business continuity and disaster recovery planning, cryptography,

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Information Security governance  
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Information Security governance and risk management, operations security, physical (environmental) security, security architecture and design, and telecommunications and network security Also covers legal and regulatory investigation and compliance Includes two practice exams and challenging review questions on the CD Professionals seeking the CISSP certification will boost their chances of success with CISSP: Certified Information Systems Security Professional Study Guide, 5th Edition.

How will governments and courts protect civil liberties in this new era of hacktivism? Ethical Hacking discusses the attendant moral and

legal issues. The first part of the 21st century will likely go down in history as the era when ethical hackers opened governments and the line of transparency moved by force. One need only read the motto "we open governments" on the Twitter page for Wikileaks to gain a sense of the sea change that has occurred. Ethical hacking is the non-violent use of a technology in pursuit of a cause—political or otherwise—which is often legally and morally ambiguous. Hacktivists believe in two general but spirited principles: respect for human rights and fundamental freedoms, including freedom of expression and personal privacy; and the responsibility of government to be

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open, transparent and fully accountable to the public. How courts and governments will deal with hacking attempts which operate in a grey zone of the law and where different ethical views collide remains to be seen. What is undisputed is that Ethical Hacking presents a fundamental discussion of key societal questions. A fundamental discussion of key societal questions. This book is published in English. - La première moitié du XXI<sup>e</sup> siècle sera sans doute reconnue comme l'époque où le piratage éthique a ouvert de force les gouvernements, déplaçant les limites de la transparence. La page twitter de Wikileaks enchâsse cet ethos à même sa devise, « we

open governments », et sa volonté d'être omniprésent. En parallèle, les grandes sociétés de technologie comme Apple se font compétition pour produire des produits de plus en plus sécuritaires et à protéger les données de leurs clients, alors même que les gouvernements tentent de limiter et de décrypter ces nouvelles technologies d'encryption. Entre-temps, le marché des vulnérabilités en matière de sécurité augmente à mesure que les experts en sécurité informatique vendent des vulnérabilités de logiciels des grandes technologies, dont Apple et Google, contre des sommes allant de 10 000 à 1,5 million de dollars. L'activisme en sécurité est

à la hausse. Le piratage éthique est l'utilisation non-violence d'une technologie quelconque en soutien d'une cause politique ou autre qui est souvent ambiguë d'un point de vue juridique et moral. Le hacking éthique peut désigner les actes de vérification de pénétration professionnelle ou d'experts en sécurité informatique, de même que d'autres formes d'actions émergentes, comme l'hacktivism et la désobéissance civile en ligne. L'hacktivism est une forme de piratage éthique, mais également une forme de militantisme des droits civils à l'ère numérique. En principe, les adeptes du hacktivism croient en deux grands principes : le respect des droits de



la personne et les libertés fondamentales, y compris la liberté d'expression et à la vie privée, et la responsabilité des gouvernements d'être ouverts, transparents et pleinement redevables au public. En pratique, toutefois, les antécédents comme les agendas des hacktivistes sont fort diversifiés. Il n'est pas clair de quelle façon les tribunaux et les gouvernements traiteront des tentatives de piratage eu égard aux zones grises juridiques, aux approches éthiques conflictuelles, et compte tenu du fait qu'il n'existe actuellement, dans le monde, presque aucune exception aux provisions, en matière de cybercrime et de crime

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informatique, liées à la recherche sur la sécurité ou l'intérêt public. Il sera également difficile de déterminer le lien entre hacktivism et droits civils. Ce livre est publié en anglais.

Technologies for Managing  
Electronic Document Collections  
Advances in Machine Learning and  
Signal Processing

PostgreSQL

Advanced Oxidation Processes for  
Water Treatment

Theory and Implementation

Workbook t/a Music in Theory and  
Practice

Now in an updated 2nd edition,  
Musicology: The Key Concepts  
is a handy A-Z reference guide  
to the terms and concepts

associated with contemporary musicology. Drawing on critical theory with a focus on new musicology, this updated edition contains over 35 new entries including: Autobiography Music and Conflict Deconstruction Postcolonialism Disability Music after 9/11 Masculinity Gay Musicology Aesthetics Ethnicity Interpretation Subjectivity With all entries updated, and suggestions for further reading throughout, this text is an essential resource for all students of music, musicology, and wider performance related humanities disciplines.

Focuses on used software

engineering methods and can de-emphasize or completely eliminate discussion of secondary methods, tools and techniques.

This book provides up to date coverage of the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks. *Satellite Networking: Principles and Protocols, Second Edition* provides up to date information of the original topics in satellite networking and protocols focusing on Internet Protocols (IP) over satellites, broadband over satellites, next

generation IP (IPv6) over satellites, new generation of DVB-S/S2 and DVB-RCS next generations and new services and applications. It also includes some analytical techniques for evaluation of end to end IP performance and QoS over satellite, reflecting the recent convergence of telecommunication, Internet, broadcasting and mobile networks. Topics new to this edition: Internetworking with MANET, DVB-S/S2 and DVB-RCS/RCS2 (including TCP/IP over DVB-S/RCS), recent developments in broadband satellite systems, convergence of

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services and network  
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technologies (including Internet, telecom, mobile, TV, etc.), radio resource management, PEP, I-PEP, SCPS, traffic modelling and engineering with analysis and examples, and future developments of satellite networking. Provides up to date coverage of the basics of ATM and internet protocols, and characteristics of satellite networks and internetworking between satellite and terrestrial networks (e.g. mobile ad hoc networks), including coverage of new services and applications (e.g. Internet, telecom, mobile and TV) Discusses the real-time

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protocols including RTP, RTCP and SIP for real-time applications such as VoIP and MMC, and explains TCP/IP over satellite and evolution of IPv6 over satellite and beyond

Advanced Oxidation Processes (AOPs) rely on the efficient generation of reactive radical species and are increasingly attractive options for water remediation from a wide variety of organic micropollutants of human health and/or environmental concern.

Advanced Oxidation Processes for Water Treatment covers the key advanced oxidation processes developed for

chemical contaminant destruction in polluted water sources, some of which have been implemented successfully at water treatment plants around the world. The book is structured in two sections; the first part is dedicated to the most relevant AOPs, whereas the topics covered in the second section include the photochemistry of chemical contaminants in the aquatic environment, advanced water treatment for water reuse, implementation of advanced treatment processes for drinking water production at a state-of-the-art water treatment plant in Europe, advanced treatment of



municipal and industrial wastewater, and green technologies for water remediation. The advanced oxidation processes discussed in the book cover the following aspects: - Process principles including the most recent scientific findings and interpretation. - Classes of compounds suitable to AOP treatment and examples of reaction mechanisms. - Chemical and photochemical degradation kinetics and modelling. - Water quality impact on process performance and practical considerations on process parameter selection

criteria. - Process limitations and byproduct formation and strategies to mitigate any potential adverse effects on the treated water quality. - AOP equipment design and economics considerations. - Research studies and outcomes. - Case studies relevant to process implementation to water treatment. - Commercial applications. - Future research needs. Advanced Oxidation Processes for Water Treatment presents the most recent scientific and technological achievements in process understanding and implementation, and addresses

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to anyone interested in water  
remediation, including water  
industry professionals, consulting  
engineers, regulators,  
academics, students. Editor:  
Mihaela I. Stefan - Trojan  
Technologies - Canada  
Marketing Research  
Data Analysis, Models,  
Simulation, Calibration and  
Hedging  
CISSP: Certified Information  
Systems Security Professional  
Study Guide  
Hyperspectral Image Analysis  
Comptia Network+ N10-008 Cert  
Guide, Deluxe Edition  
Java Programming with XMI,  
XML and UML

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Quality Systems Handbook  
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Quality Systems Handbook is a reference book that covers concepts and ideas in quality system. The book is comprised of two parts. Part 1 provides the background information of ISO 9000, such as its origin, composition, application, and the strategies for registration. Part 2 covers topics relevant to the ISO 9000 requirements, which include design control, internal quality audits, and statistical techniques. The text will be useful to managers, auditors, and quality

practitioners who require reference in the various aspects of quality systems.

Contributions by Rick Graziani and Bob Vachon. Environmental remediation has brought significant improvements to industrial sites and surrounding communities throughout the nation. It's also become notorious for high budget overruns and frequent schedule delays, as environmental remediation's technological aspects become subject to political, managerial and

economic concerns. Modern Project Management (MPM) Processes offer a new framework for remediation programs, geared to increased efficiency and precise troubleshooting. Environmental consultant and certified project management professional (PMP) Timothy J. Havranek has helped various companies put MPM into practice: now, he brings his techniques to the environmental remediation industry at large. Melding traditional project management structure and advanced strategic

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planning techniques to the needs of environmental remediation, Modern Project Management Techniques for the Environmental Remediation Industry presents this major innovation: a standardized planning process, applicable to all types of remediation projects. Every participant in an environmental remediation effort can mutually benefit from Modern Project Management Techniques for the Environmental Remediation Industry. Environmental

consultants will discover precise budget and schedule-planning skills—quite an advantage in their increasingly competitive industry. Customers will also know what to consider when selecting an environmental services company, and discover advanced methods for reducing project costs and durations. MPM: it's bringing new vitality and purpose to environmental protection. Put it into practice with the benefit of Havranek's real-life experience.

The second edition of the



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highly acclaimed Wind Power in Power Systems has been thoroughly revised and expanded to reflect the latest challenges associated with increasing wind power penetration levels. Since its first release, practical experiences with high wind power penetration levels have significantly increased. This book presents an overview of the lessons learned in integrating wind power into power systems and provides an outlook of the relevant issues and solutions to allow even

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higher wind power penetration levels. This includes the development of standard wind turbine simulation models. This extensive update has 23 brand new chapters in cutting-edge areas including offshore wind farms and storage options, performance validation and certification for grid codes, and the provision of reactive power and voltage control from wind power plants. Key features: Offers an international perspective on integrating a high penetration of wind power

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into the power system,  
from basic network  
interconnection to  
industry deregulation;  
Outlines the methodology  
and results of European  
and North American large-  
scale grid integration  
studies; Extensive  
practical experience from  
wind power and power  
system experts and  
transmission systems  
operators in Germany,  
Denmark, Spain, UK,  
Ireland, USA, China and  
New Zealand; Presents  
various wind turbine  
designs from the  
electrical perspective and

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models for their simulation, and discusses industry standards and world-wide grid codes, along with power quality issues; Considers concepts to increase penetration of wind power in power systems, from wind turbine, power plant and power system redesign to smart grid and storage solutions. Carefully edited for a highly coherent structure, this work remains an essential reference for power system engineers, transmission and distribution network operator and planner, wind

turbine designers, wind project developers and wind energy consultants dealing with the integration of wind power into the distribution or transmission network. Up-to-date and comprehensive, it is also useful for graduate students, researchers, regulation authorities, and policy makers who work in the area of wind power and need to understand the relevant power system integration issues.

(ISC)2 CISSP Certified Information Systems Security Professional

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Official Study Guide  
Music in Theory and  
Practice

Practice

Fundamentals and

Applications

Mastering XMI

Fundamentals of Data

Mining in Genomics and

Proteomics

Ethical Hacking

The open source PostgreSQL

database is soaring in

popularity, as thousands of

database and web

professionals discover its

powerful features,

transaction support,

performance, and industrial-

strength scalability. In this

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book, a founding member of the PostgreSQL development team introduces everything you need to know to succeed with PostgreSQL, from basic SQL commands through database administration and optimization. PostgreSQL assumes no previous database expertise: it establishes a firm foundation of basic concepts and commands before turning to PostgreSQL's advanced, innovative capabilities. Bruce Momjian walks readers step-by-step from their first database queries through the complex queries needed

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to solve real-world problems. He presents proper query syntax, then explores the value and use of each key SQL commands in working applications. Learn to manipulate and update databases, customize queries, work with SQL aggregates, use joins, combine SELECTs with subqueries, work with triggers and transactions, import and export data, use PostgreSQL query tools, and more. Discover PostgreSQL techniques for server-side programming and multi-user control, and master



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PostgreSQL's interfaces to C, C++, ODBC, JDBC, Perl, and Tcl/TK. You'll also find detailed coverage of PostgreSQL administration, including backups, troubleshooting, and access configuration.

For almost four decades, *Software Engineering: A Practitioner's Approach* (SEPA) has been the world's leading textbook in software engineering. The ninth edition represents a major restructuring and update of previous editions, solidifying the book's position as the most comprehensive guide

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to this important subject. Create more powerful, flexible applications using a new extension of the XML standard. Programmers are finding that the XMI extension of the XML standard provides a lot more flexibility in writing software for sharing data. Written by one of the principal authors of XMI, this book provides programmers with everything they need to know to best utilize this extension. The authors cover the basics first, detailing the essential concepts and explaining how XMI relates

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to XML and UML. Readers will then learn how to program with XMI, including how to express data in XMI, create XMI documents with Java, and merge documents. Samples of real-world XMI applications are also included throughout the book that show how IBM is using XMI with data warehousing and how to convert simple relational databases into XMI. CD-ROM includes sample XMI source code and software tools for developing XMI and XML applications.

This book reviews the state

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of the art in algorithmic approaches addressing the practical challenges that arise with hyperspectral image analysis tasks, with a focus on emerging trends in machine learning and image processing/understanding. It presents advances in deep learning, multiple instance learning, sparse representation based learning, low-dimensional manifold models, anomalous change detection, target recognition, sensor fusion and super-resolution for robust multispectral and hyperspectral image

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understanding. It presents research from leading international experts who have made foundational contributions in these areas. The book covers a diverse array of applications of multispectral/hyperspectral imagery in the context of these algorithms, including remote sensing, face recognition and biomedicine. This book would be particularly beneficial to graduate students and researchers who are taking advanced courses in (or are working in) the areas of image analysis, machine

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Chapter 1 places into perspective a total Information Storage and Retrieval System. This perspective introduces new challenges to the problems that

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need to be theoretically addressed and commercially implemented. Ten years ago commercial implementation of the algorithms being developed was not realistic, allowing theoreticians to limit their focus to very specific areas. Bounding a problem is still essential in deriving theoretical results. But the commercialization and insertion of this technology into systems like the Internet that are widely being used changes the way problems are bounded. From a theoretical perspective, efficient scalability of algorithms to systems with gigabytes and terabytes of data, operating with minimal user search statement information, and making maximum use of all functional aspects of an information system need to be considered. The dissemination systems using persistent indexes or

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mail files to modify ranking algorithms and combining the search of structured information fields and free text into a consolidated weighted output are examples of potential new areas of investigation. The best way for the theoretician or the commercial developer to understand the importance of problems to be solved is to place them in the context of a total vision of a complete system. Understanding the differences between Digital Libraries and Information Retrieval Systems will add an additional dimension to the potential future development of systems. The collaborative aspects of digital libraries can be viewed as a new source of information that dynamically could interact with information retrieval techniques. This book presents state-of-the-art

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analytical methods from statistics and data mining for the analysis of high-throughput data from genomics and proteomics. It adopts an approach focusing on concepts and applications and presents key analytical techniques for the analysis of genomics and proteomics data by detailing their underlying principles, merits and limitations.

Defining a formal domain ontology is considered a useful, not to say necessary step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done, as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems, and most software engineers are unfamiliar with

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these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear, and is illustrated with examples. The book is supported by a website.

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