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***A thorough reference on
database administration outlines***

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a variety of DBA roles and responsibilities and discusses such topics as data modeling and normalization, database/application design, change management, database security and data integrity,

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***performance issues, disaster
planning, and other essentials.
Original. (Advanced)
Master C++ “The Qt Way” with
Modern Design Patterns and
Efficient Reuse This fully
updated, classroom-tested book***

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***teaches C++ “The Qt Way,”
emphasizing design patterns and
efficient reuse. Readers will
master both the C++ language
and Qt libraries, as they learn to
develop maintainable software
with well-defined code layers and***

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simple, reusable classes and functions. Every chapter of this edition has been improved with new content, better organization, or both. Readers will find extensively revised coverage of QObjects, Reflection, Widgets,

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Main Windows, Models and Views, Databases, Multi-Threaded Programming, and Reflection. This edition introduces the powerful new Qt Creator IDE; presents new multimedia APIs; and offers

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extended coverage of Qt Designer and C++ Integration. It has been restructured to help readers start writing software immediately and write robust, effective software sooner. The authors introduce several new

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design patterns, add many quiz questions and labs, and present more efficient solutions relying on new Qt features and best practices. They also provide an up-to-date C++ reference section and a complete application case

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study. Master C++ keywords, literals, identifiers, declarations, types, and type conversions. Understand classes and objects, organize them, and describe their interrelationships. Learn consistent programming style

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and naming rules. Use lists, functions, and other essential techniques. Define inheritance relationships to share code and promote reuse. Learn how code libraries are designed, built, and reused. Work with QObject, the

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base class underlying much of Qt. Build graphical user interfaces with Qt widgets. Use templates to write generic functions and classes. Master advanced reflective programming techniques. Use

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the Model-View framework to cleanly separate data and GUI classes. Validate input using regular expressions and other techniques. Parse XML data with SAX, DOM, and QXmlStreamReader. Master

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***today's most valuable creational
and structural design patterns.
Create, use, monitor, and debug
processes and threads. Access
databases with Qt's SQL classes.
Manage memory reliably and
efficiently. Understand how to***

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***effectively manage QThreads
and use QtConcurrent
algorithms. Click here to obtain
supplementary materials for this
book.***

***In the era of "Big Data," effective
information management has***

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***become crucial to the success of
virtually all organizations.***

***Unfortunately, few IT
practitioners know today's best
practices for successfully
managing enterprise information
resources. "Patterns for***

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Information Management" offers the solution: a multi-disciplinary patterns-based approach that reflects where information comes from, how it is distributed, protected, governed, monitored -- and, ultimately,

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utilized. Leading IBM information management experts Mandy Chessell and Harald Smith show how to design, integrate, and optimize "information supply chains" that: * Effectively characterize the information

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***issues associated with today's
complex distributed systems*
Fully reflect today's service-
oriented, message-based
environments* Establish an
information landscape that is
effective, manageable, ordered,***

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and efficient.* Create orderly flows of information which can be reused and synchronized wherever necessary* Support reasoned decision-making about the applicability and consequences of each

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***alternative approach Chessell
and Smith complement their
plain-English information pattern
language with a complete case
study demonstrating its real-
world applications. Their
pioneering guidebook will serve***

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as both an indispensable guide to architects at all levels of experience "and" an outstanding long-term information management reference.

This classic book is the definitive real-world style guide for better

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Smalltalk programming. This author presents a set of patterns that organize all the informal experience successful Smalltalk programmers have learned the hard way. When programmers understand these patterns, they

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can write much more effective code. The concept of Smalltalk patterns is introduced, and the book explains why they work. Next, the book introduces proven patterns for working with methods, messages, state,

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collections, classes and formatting. Finally, the book walks through a development example utilizing patterns. For programmers, project managers, teachers and students -- both new and experienced. This book

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presents a set of patterns that organize all the informal experience of successful Smalltalk programmers. This book will help you understand these patterns, and empower you to write more effective code.

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***Management Information
Systems***

***Using Pictures to Communicate
and Connect with Your
Audiences***

***Introduction to Design Patterns
in C++ with Qt***

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***Cloud Computing Design
Patterns (paperback)
Real-Time Applications with
Storm, Spark, and More Hadoop
Alternatives
NoSQL for Mere Mortals***

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Master alternative Big Data technologies that can do what Hadoop can't: real-time analytics and iterative machine learning. When most technical professionals think of Big Data analytics today, they think of Hadoop. But there are many cutting-edge applications that Hadoop isn't

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well suited for, especially real-time analytics and contexts requiring the use of iterative machine learning algorithms. Fortunately, several powerful new technologies have been developed specifically for use cases such as these. Big Data Analytics Beyond Hadoop is the first guide

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specifically designed to help you take the next steps beyond Hadoop. Dr. Vijay Srinivas Agneeswaran introduces the breakthrough Berkeley Data Analysis Stack (BDAS) in detail, including its motivation, design, architecture, Mesos cluster management, performance, and more.

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He presents realistic use cases and up-to-date example code for: Spark, the next generation in-memory computing technology from UC Berkeley Storm, the parallel real-time Big Data analytics technology from Twitter GraphLab, the next-generation graph processing paradigm from CMU and

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the University of Washington (with comparisons to alternatives such as Pregel and Piccolo) Halo also offers architectural and design guidance and code sketches for scaling machine learning algorithms to Big Data, and then realizing them in real-time. He concludes by previewing emerging

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trends, including real-time video analytics, SDNs, and even Big Data governance, security, and privacy issues. He identifies intriguing startups and new research possibilities, including BDAS extensions and cutting-edge model-driven analytics. Big Data Analytics

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Beyond Hadoop is an indispensable resource for everyone who wants to reach the cutting edge of Big Data analytics, and stay there: practitioners, architects, programmers, data scientists, researchers, startup entrepreneurs, and advanced students.

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2012 Jolt Award Finalist! Even experienced software professionals find it difficult to apply patterns in ways that deliver substantial value to their organizations. In *Elemental Design Patterns*, Jason McC. Smith addresses this problem head-on, helping developers harness the true

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power of patterns, map them to real software implementations more cleanly and directly, and achieve far better results. Part tutorial, part example-rich cookbook, this resource will help developers, designers, architects, and analysts successfully use patterns with a wide variety of

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languages, environments, and problem domains. Every bit as important, it will give them a deeper appreciation for the work they 've chosen to pursue. Smith presents the crucial missing link that patterns practitioners have needed: a foundational collection of simple core

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patterns that are broken down to their core elements. If you work in software, you may already be using some of these elemental design patterns every day. Presenting them in a comprehensive methodology for the first time, Smith names them, describes them, explains their

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importance, helps you compare and choose among them, and offers a framework for using them together. He also introduces an innovative Pattern Instance Notation diagramming system that makes it easier to work with patterns at many levels of granularity, regardless of

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your goals or role. If you ' re new to patterns, this example-rich approach will help you master them piece by piece, logically and intuitively. If you ' re an experienced patterns practitioner, Smith follows the Gang of Four format you ' re already familiar with, explains how his elemental

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patterns can be composed into conventional design patterns, and introduces highly productive new ways to apply ideas you 've already encountered. No matter what your level of experience, this infinitely practical book will help you transform abstract patterns into high-value

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solutions.

Maximize the impact and precision of your message! Now in its fourth edition, the Microsoft Manual of Style provides essential guidance to content creators, journalists, technical writers, editors, and everyone else who writes about computer technology. Direct

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from the Editorial Style Board at Microsoft—you get a comprehensive glossary of both general technology terms and those specific to Microsoft; clear, concise usage and style guidelines with helpful examples and alternatives; guidance on grammar, tone, and voice; and best practices for

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writing content for the web, optimizing for accessibility, and communicating to a worldwide audience. Fully updated and optimized for ease of use, the Microsoft Manual of Style is designed to help you communicate clearly, consistently, and accurately about technical

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topics—across a range of audiences and media.

Experiential learning is a singularly powerful approach to teaching and learning that is based on the fact that people learn best through experience. In this extensively updated book, the author offers the most complete and

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up-to-date statement of the theory of experiential learning and its modern applications in education, work, and adult development.

Service Design Patterns

Patterns of Information Management

Automating the Virtualized Data
Center

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Concepts, Drivers & Techniques
The Internet of Things
Reactive Messaging Patterns with the
Actor Model
Introduction to Programming Using
Python

"This book continues the very high
standard we have come to expect

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from ServiceTech Press. The book provides well-explained vendor-agnostic patterns to the challenges of providing or using cloud solutions from PaaS to SaaS. The book is not only a great patterns reference, but also worth reading from cover to cover as the patterns are thought-

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provoking, drawing out points that you should consider and ask of a potential vendor if you're adopting a cloud solution." --Phil Wilkins, Enterprise Integration Architect, Specsavers "Thomas Erl's text provides a unique and comprehensive perspective on cloud

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design patterns that is clearly and concisely explained for the technical professional and layman alike. It is an informative, knowledgeable, and powerful insight that may guide cloud experts in achieving extraordinary results based on extraordinary expertise identified in

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this text. I will use this text as a resource in future cloud designs and architectural considerations." --Dr. Nancy M. Landreville, CEO/CISO, NML Computer Consulting The Definitive Guide to Cloud Architecture and Design Best-selling service technology author Thomas

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Erl has brought together the de facto catalog of design patterns for modern cloud-based architecture and solution design. More than two years in development, this book's 100+ patterns illustrate proven solutions to common cloud challenges and requirements. Its patterns are

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supported by rich, visual documentation, including 300+ diagrams. The authors address topics covering scalability, elasticity, reliability, resiliency, recovery, data management, storage, virtualization, monitoring, provisioning, administration, and much more.

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Readers will further find detailed coverage of cloud security, from networking and storage safeguards to identity systems, trust assurance, and auditing. This book's unprecedented technical depth makes it a must-have resource for every cloud technology architect,

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solution designer, developer,
administrator, and manager. Topic
Areas Enabling ubiquitous, on-
demand, scalable network access to
shared pools of configurable IT
resources Optimizing multitenant
environments to efficiently serve
multiple unpredictable consumers

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Using elasticity best practices to
scale IT resources transparently and
automatically Ensuring runtime
reliability, operational resiliency, and
automated recovery from any failure
Establishing resilient cloud
architectures that act as pillars for
enterprise cloud solutions Rapidly

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provisioning cloud storage devices,
resources, and data with minimal
management effort Enabling
customers to configure and operate
custom virtual networks in SaaS,
PaaS, or IaaS environments
Efficiently provisioning resources,
monitoring runtimes, and handling

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day-to-day administration

Implementing best-practice security
controls for cloud service

architectures and cloud storage

Securing on-premise Internet access,
external cloud connections, and

scaled VMs Protecting cloud services
against denial-of-service attacks and

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traffic hijacking Establishing cloud authentication gateways, federated cloud authentication, and cloud key management Providing trust attestation services to customers Monitoring and independently auditing cloud security Solving complex cloud design problems with

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compound super-patterns

The need to handle increasingly larger data volumes is one factor driving the adoption of a new class of nonrelational “NoSQL” databases. Advocates of NoSQL databases claim they can be used to build systems that are more performant, scale

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better, and are easier to program. NoSQL Distilled is a concise but thorough introduction to this rapidly emerging technology. Pramod J. Sadalage and Martin Fowler explain how NoSQL databases work and the ways that they may be a superior alternative to a traditional RDBMS.

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The authors provide a fast-paced guide to the concepts you need to know in order to evaluate whether NoSQL databases are right for your needs and, if so, which technologies you should explore further. The first part of the book concentrates on core concepts, including schemaless data

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models, aggregates, new distribution models, the CAP theorem, and map-reduce. In the second part, the authors explore architectural and design issues associated with implementing NoSQL. They also present realistic use cases that demonstrate NoSQL databases at

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work and feature representative examples using Riak, MongoDB, Cassandra, and Neo4j. In addition, by drawing on Pramod Sadalage's pioneering work, NoSQL Distilled shows how to implement evolutionary design with schema migration: an essential technique for

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applying NoSQL databases. The book concludes by describing how NoSQL is ushering in a new age of Polyglot Persistence, where multiple data-storage worlds coexist, and architects can choose the technology best optimized for each type of data access.

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Web services have been used for many years. In this time, developers and architects have encountered a number of recurring design challenges related to their usage, and have learned that certain service design approaches work better than others to solve certain problems. In

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Service Design Patterns, Rob Daigneau codifies proven design solutions for web services that follow the REST architectural style or leverage the SOAP/WSDL specifications. This catalogue identifies the fundamental topics in web service design and lists the

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common design patterns for each topic. All patterns identify the context in which they may be used, explain the constituent design elements, and explore the relative strengths and trade-offs. Code examples are provided to help you better understand how the patterns

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work but are kept general so that you can see how the solutions may be applied to disparate technologies that will inevitably change in the years to come. This book will help readers answer the following questions: How do you create a web service API, what are the common

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API styles, and when should a particular style be used? How can clients and web services communicate, and what are the foundations for creating complex conversations in which multiple parties exchange data over extended periods of time? What are the options

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for implementing web service logic, and when should a particular approach be used? How can clients become less coupled to the underlying systems used by a service? How can information about a web service be discovered? How can generic functions like

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authentication, validation, caching, and logging be supported on the client or service? What changes to a service cause clients to break? What are the common ways to version a service? How can web services be designed to support the continuing evolution of business logic without

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forcing clients to constantly upgrade? This book is an invaluable resource for enterprise architects, solution architects, and developers who use web services to create enterprise IT applications, commercial or open source products, and Software as a Service (SaaS)

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products that leverage emerging
Cloud platforms.

The Easy, Common-Sense Guide to
Solving Real Problems with NoSQL
The Mere Mortals ® tutorials have
earned worldwide praise as the
clearest, simplest way to master
essential database technologies.

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Now, there's one for today's exciting new NoSQL databases. NoSQL for Mere Mortals guides you through solving real problems with NoSQL and achieving unprecedented scalability, cost efficiency, flexibility, and availability. Drawing on 20+ years of cutting-edge database

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experience, Dan Sullivan explains the advantages, use cases, and terminology associated with all four main categories of NoSQL databases: key-value, document, column family, and graph databases. For each, he introduces pragmatic best practices for building high-value applications.

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Through step-by-step examples, you'll discover how to choose the right database for each task, and use it the right way. Coverage includes --Getting started: What NoSQL databases are, how they differ from relational databases, when to use them, and when not to Data

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management principles and design
criteria: Essential knowledge for
creating any database solution,
NoSQL or relational --Key-value
databases: Gaining more utility from
data structures --Document
databases: Schemaless databases,
normalization and denormalization,

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mutable documents, indexing, and design patterns --Column family databases: Google's BigTable design, table design, indexing, partitioning, and Big Data Graph databases: Graph/network modeling, design tips, query methods, and traps to avoid Whether you're a database

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developer, data modeler, database user, or student, learning NoSQL can open up immense new opportunities. As thousands of database professionals already know, For Mere Mortals is the fastest, easiest route to mastery.

Big Data Analytics Beyond Hadoop

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Experience as the Source of Learning
and Development

Getting Started with Data Science

Investigative Science Learning

Environment

Microsoft .NET - Architecting

Applications for the Enterprise

Cloud Computing

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The Power of Infographics

"The security of information systems has not improved at a rate consistent with the growth and sophistication of the

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**attacks being made
against them. To address
this problem, we must
improve the underlying
strategies and
techniques used to
create our systems.**

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Specifically, we must build security in from the start, rather than append it as an afterthought. That's the point of Secure Coding in C and C++. In careful

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detail, this book shows software developers how to build high-quality systems that are less vulnerable to costly and even catastrophic attack. It's a book that

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**every developer should
read before the start of
any serious project."**

**--Frank Abagnale,
author, lecturer, and
leading consultant on
fraud prevention and**

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**secure documents Learn
the Root Causes of
Software Vulnerabilities
and How to Avoid Them
Commonly exploited
software vulnerabilities
are usually caused by**

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**avoidable software
defects. Having analyzed
nearly 18,000
vulnerability reports
over the past ten years,
the CERT/Coordination
Center (CERT/CC) has**

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determined that a relatively small number of root causes account for most of them. This book identifies and explains these causes and shows the steps that

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can be taken to prevent exploitation. Moreover, this book encourages programmers to adopt security best practices and develop a security mindset that can help

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**protect software from
tomorrow's attacks, not
just today's. Drawing on
the CERT/CC's reports
and conclusions, Robert
Seacord systematically
identifies the program**

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**errors most likely to
lead to security
breaches, shows how they
can be exploited,
reviews the potential
consequences, and
presents secure**

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**alternatives. Coverage
includes technical
detail on how to Improve
the overall security of
any C/C++ application
Thwart buffer overflows
and stack-smashing**

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**attacks that exploit
insecure string
manipulation logic Avoid
vulnerabilities and
security flaws resulting
from the incorrect use
of dynamic memory**

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management functions
Eliminate integer-
related problems:
integer overflows, sign
errors, and truncation
errors **Correctly use**
formatted output

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**functions without
introducing format-
string vulnerabilities
Avoid I/O
vulnerabilities,
including race
conditions Secure Coding**

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**in C and C++ presents
hundreds of examples of
secure code, insecure
code, and exploits,
implemented for Windows
and Linux. If you're
responsible for creating**

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**secure C or C++
software--or for keeping
it safe--no other book
offers you this much
detailed, expert
assistance.**

USE THE ACTOR MODEL TO

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**BUILD SIMPLER SYSTEMS
WITH BETTER PERFORMANCE
AND SCALABILITY**

**Enterprise software
development has been
much more difficult and
failure-prone than it**

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**needs to be. Now,
veteran software
engineer and author
Vaughn Vernon offers an
easier and more
rewarding method to
succeeding with Actor**

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**model. Reactive
Messaging Patterns with
the Actor Model shows
how the reactive
enterprise approach,
Actor model, Scala, and
Akka can help you**

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**overcome previous limits
of performance and
scalability, and
skillfully address even
the most challenging non-
functional requirements.
Reflecting his own**

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**cutting-edge work,
Vernon shows architects
and developers how to
translate the longtime
promises of Actor model
into practical reality.
First, he introduces the**

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**tenets of reactive
software, and shows how
the message-driven Actor
model addresses all of
them—making it possible
to build systems that
are more responsive,**

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**resilient, and elastic.
Next, he presents a
practical Scala
bootstrap tutorial, a
thorough introduction to
Akka and Akka Cluster,
and a full chapter on**

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**maximizing performance
and scalability with
Scala and Akka. Building
on this foundation,
you'll learn to apply
enterprise application
and integration patterns**

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to establish message channels and endpoints; efficiently construct, route, and transform messages; and build robust systems that are simpler and far more

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**successful. Coverage
Includes How reactive
architecture replaces
complexity with
simplicity throughout
the core, middle, and
edges The**

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**characteristics of
actors and actor
systems, and how Akka
makes them more powerful
Building systems that
perform at scale on one
or many computing nodes**

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**Establishing channel
mechanisms, and choosing
appropriate channels for
each application and
integration challenge
Constructing messages to
clearly convey a**

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**sender's intent in
communicating with a
receiver Implementing a
Process Manager for your
Domain-Driven Designs
Decoupling a message's
source and destination,**

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**and integrating
appropriate business
logic into its router
Understanding the
transformations a
message may experience
in applications and**

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integrations

Implementing persistent

actors using Event

Sourcing and reactive

views using CQRS Find

unique online training

on Domain-Driven Design,

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**Scala, Akka, and other
software craftsmanship
topics using the
for{comprehension}
website at
forcomprehension.com.
Data Model**

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**PatternsConventions of
ThoughtAddison-Wesley
Describes ways to
incorporate domain
modeling into software
development.
Applications and**

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**Integration in Scala and
Akka**

Big Data Fundamentals

**Secure Coding in C and
C++**

**An introduction to
information graphics and**

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**visualization
For Digital
Transformation and
Continuous Delivery
A Brief Guide to the
Emerging World of
Polyglot Persistence**

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How Smart TVs, Smart Cars, Smart Homes, and Smart Cities are Changing the World

Following the familiar
"Design Patterns"
format, expert cloud

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developer Chris Moyer introduces proven patterns for cloud platforms from Amazon, Google, and other providers. Moyer demonstrates these

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patterns at work through
extensive example code
and case study
applications for Amazon
Web Services (AWS). As
you increasingly move to
the cloud, you'll

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constantly encounter the challenges this book solves. You'll rely on it for years—whenever you need a cloud solution you can trust. Vaughn Vernon presents

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concrete and realistic
domain-driven design
(DDD) techniques through
examples from familiar
domains, such as a Scrum-
based project management
application that

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integrates with a
collaboration suite and
security provider. Each
principle is backed up
by realistic Java
examples, and all
content is tied together

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by a single case study
of a company charged
with delivering a set of
advanced software
systems with DDD.

The goal of this book is
to introduce a reader to

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a new philosophy of
teaching and learning
physics - Investigative
Science Learning
Environment, or ISLE
(pronounced as a small
island). ISLE is an

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example of an
"intentional" approach
to curriculum design and
learning activities
(MacMillan and Garrison
1988 A Logical Theory of
Teaching: Erotetics and

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Intentionality).

Intentionality means that the process through which the learning occurs is as crucial for learning as the final outcome or learned

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content. In ISLE, the process through which students learn mirrors the practice of physics. In OBJECT THINKING, esteemed object technologist David West

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contends that the
mindset makes the
programmer--not the
tools and techniques.

Delving into the
history, philosophy, and
even politics of object-

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oriented programming,
West reveals how the
best programmers rely on
analysis and
conceptualization--on
thinking--rather than
formal process and

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methods. Both
provocative and
pragmatic, this book
gives form to what's
primarily been an oral
tradition among the
field's revolutionary

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thinkers--and it illustrates specific object-behavior practices that you can adopt for true object design and superior results. Gain an in-

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depth understanding of:
Prerequisites and
principles of object
thinking. Object
knowledge implicit in
eXtreme Programming (XP)
and Agile software

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development. Object conceptualization and modeling. Metaphors, vocabulary, and design for object development. Learn viable techniques for: Decomposing complex

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domains in terms of objects. Identifying object relationships, interactions, and constraints. Relating object behavior to internal structure and

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implementation design.

Incorporating object
thinking into XP and
Agile practice.

Enterprise Integration
Patterns

Business Analytics with

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Management Science
Models and Methods
Data Model Patterns
Tackling Complexity in
the Heart of Software
Concepts, Patterns, and
Projects

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NoSQL Distilled
Business Analytics
Principles, Concepts,
and Applications with
SAS

***Learn proven, real-world
techniques for specifying***

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***software requirements
with this practical
reference. It details 30
requirement “patterns”
offering realistic
examples for situation-
specific guidance for***

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***building effective
software requirements.
Each pattern explains
what a requirement needs
to convey, offers potential
questions to ask, points
out potential pitfalls,***

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suggests extra requirements, and other advice. This book also provides guidance on how to write other kinds of information that belong in a requirements

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specification, such as assumptions, a glossary, and document history and references, and how to structure a requirements specification. A disturbing proportion of

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computer systems are judged to be inadequate; many are not even delivered; more are late or over budget. Studies consistently show one of the single biggest causes

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is poorly defined requirements: not properly defining what a system is for and what it's supposed to do. Even a modest contribution to improving requirements

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offers the prospect of saving businesses part of a large sum of wasted investment. This guide emphasizes this important requirement need—determining what a

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software system needs to do before spending time on development. Expertly written, this book details solutions that have worked in the past, with guidance for modifying

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***patterns to fit individual
needs—giving developers
the valuable advice they
need for building
effective software
requirements
Need to overcome***

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***information overload and
get your message across?
Infographics are your
secret weapon. Using
them, you can deliver
knowledge and ideas
visually, so your***

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audiences can understand them quickly - and take action. In The Power of Infographics, Mark Smiciklas helps you understand how to leverage the use of

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***powerful infographics:
visual representations
capable of transforming
complex data or concepts
into intuitive, instant
knowledge. Writing from
a business perspective,***

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Smiciklas reveals how to use infographics both inside and outside the organization: to build brands, make sales, serve clients, align teams behind new strategies,

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***and more. This
straightforward, visual,
common-sense based
book explains: * What
infographics are, and why
they work so well * How
to visualize statistical***

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***data, business processes,
time, geography, lists,
relationships, and
concepts * How to
communicate the
"personal" through
infographics * Best***

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***practices for observation,
processing ideas, creating
highly effective
infographics, and
publishing them * How to
plan for and measure the
ROI of infographics * And***

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much more...

***This book is about
prescriptive analytics. It
provides business
practitioners and
students with a selected
set of management***

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***science and optimization
techniques and discusses
the fundamental
concepts, methods, and
models needed to
understand and
implement these***

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***techniques in the era of
Big Data. A large number
of management science
models exist in the body
of literature today. These
models include
optimization techniques***

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or heuristics, static or dynamic programming, and deterministic or stochastic modeling. The topics selected in this book, mathematical programming and

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simulation modeling, are believed to be among the most popular management science tools, as they can be used to solve a majority of business optimization

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***problems. Over the years,
these techniques have
become the weapon of
choice for decision
makers and practitioners
when dealing with
complex business***

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systems.

***This is the digital version
of the printed book
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***Learning the basics of a
modeling technique is not
the same as learning how***

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to use and apply it. To develop a data model of an organization is to gain insights into its nature that do not come easily. Indeed, analysts are often expected to understand

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subtleties of an organization's structure that may have evaded people who have worked there for years. Here's help for those analysts who have learned the

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***basics of data modeling
(or "entity/relationship
modeling") but who need
to obtain the insights
required to prepare a
good model of a real
business. Structures***

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common to many types of business are analyzed in areas such as accounting, material requirements planning, process manufacturing, contracts, laboratories, and

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documents. In each chapter, high-level data models are drawn from the following business areas: The Enterprise and Its World The Things of the Enterprise

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***Procedures and Activities
Contracts Accounting The
Laboratory Material
Requirements Planning
Process Manufacturing
Documents Lower-Level
Conventions***

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***Logical Data Modeling
Microsoft Manual of Style
Database Administration
The Functional Art
What it is and How to do
it
A Value-driven Approach***

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***to Business Intelligence
and Data Warehousing
Fundamental Design
Solutions for SOAP/WSDL
and RESTful Web
Services***

Responding to a shortage of

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effective content for teaching business analytics, this text offers a complete, integrated package of knowledge for newcomers to the subject. The authors present an up-to-date view of what business

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analytics is, why it is so valuable, and most importantly, how it is used. They combine essential conceptual content with clear explanations of the tools, techniques, and

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methodologies actually used to implement modern business analytics initiatives. This book offers a proven step-wise approach to designing an analytics program, and successfully integrating it into

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your organization, so it effectively provides intelligence for competitive advantage in decision making. The old Internet typically connected personal computers. But a radically new

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Internet is emerging. Some call it an "Internet of Things" (IoT) or "Internet of Everything" (IoE). The IoT won't just connect people: it'll connect "smart" homes, appliances, cars, aircraft

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(a.k.a. drones)... offices,
factories, cities... the world. By
some estimates, the IoE will
explode into a \$19 trillion
market in just a few years. If
that happens... when that
happens... it will transform

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your life. ¿ You need to know what's coming. But, until now, most guides to the Internet of Everything have been written for technical experts. Now, the world's #1 author of beginning technology books has written

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the perfect introduction for every consumer and citizen. In *The Internet of Things*, Michael Miller reveals how a new generation of autonomously connected smart devices is emerging, and how it will

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section, offering up-to-the-minute advice for using today's IoT technologies or preparing for tomorrow's. ¿ You'll also discover the potential downsides and risks associated with intelligent,

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automatic interaction. When all your devices can communicate with each other (and with the companies that sell and monitor them), how private is your private life? Do the benefits outweigh the

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risks? And what does a connected world do when the connections suddenly go down? Packed with scenarios and insider interviews, The Internet of Things makes our future utterly, vividly real.

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This is the eagerly-anticipated revision to one of the seminal books in the field of software architecture which clearly defines and explains the topic. Get the end-to-end instruction you need to design, develop,

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and deploy more effective data integration, reporting, and analysis solutions using SQL Server 2008—whether you're new to business intelligence (BI) programming or a seasoned pro. With real-world

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cycle and build a BI team Dig
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and Reporting Services
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Intelligence Development
Studio (BIDS) Write queries
that rank, sort, and drill down
on sales data Develop extract,
transform, and load (ETL)
solutions Add a source code
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packages for deployment via
encryption and credentials
Use MDX and DMX Query
Designers to build reports
based on OLAP cubes and
data mining models Create
and implement custom objects

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using .NET code View reports
in Microsoft Office Excel and
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What, Why, and How
Smalltalk Best Practice
Patterns
Kick Start

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When Learning Physics
Mirrors Doing Physics
Building Applications in the
Cloud
Making Sense of Data with
Analytics
Software Architecture in

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Practice

Unlike any time before in our lives, we have access to vast amounts of free information. With the right tools, we can start to make sense of all this data to see patterns and trends that would otherwise be invisible to

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book will show you how to use statistical charts, maps, and explanation diagrams to spot the stories in the data and learn new things from it. You'll also get to peek into the creative process of some of the world's most talented designers and visual journalists,

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including Condé Nast Traveler's
John Grimwade, National
Geographic Magazine's Fernando
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Post's Hannah Fairfield, Hans
Rosling of the Gapminder
Foundation, Stanford's Geoff

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McGhee, and European superstars Moritz Stefaner, Jan Willem Tulp, Stefanie Posavec, and Gregor Aisch. The book also includes a DVD-ROM containing over 90 minutes of video lessons that expand on core concepts explained within the book and

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includes even more inspirational information graphics from the world's leading designers. The first book to offer a broad, hands-on introduction to information graphics and visualization, *The Functional Art* reveals:

- Why data visualization should be

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thought of as “functional art”
rather than fine art • How to use
color, type, and other graphic
tools to make your information
graphics more effective, not just
better looking • The science of
how our brains perceive and
remember information ĩ • Best

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practices for creating interactive information graphics • A comprehensive look at the creative process behind successful information graphics & • An extensive gallery of inspirational work from the world's top designers and visual

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artists On the DVD-ROM: In this introductory video course on information graphics, Alberto Cairo goes into greater detail with even more visual examples of how to create effective information graphics that function as practical tools for

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aiding perception. You'll learn how to: incorporate basic design principles in your visualizations, create simple interfaces for interactive graphics, and choose the appropriate type of graphic forms for your data. Cairo also deconstructs successful

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information graphics from The New York Times and National Geographic magazine with sketches and images not shown in the book. All of Peachpit's eBooks contain the same content as the print edition. You will find a link in the last few pages of

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MyProgrammingLab should only
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an instructor. Introduction to
Programming Using Python is
intended for use in the

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introduction to programming course. Daniel Liang is known for his "fundamentals-first" approach to teaching programming concepts and techniques.

"Fundamentals-first" means that students learn fundamental programming concepts like

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selection statements, loops, and functions, before moving into defining classes. Students learn basic logic and programming concepts before moving into object-oriented programming, and GUI programming. Another aspect of Introduction to

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Programming Using Python is that in addition to the typical programming examples that feature games and some math, Liang gives an example or two early in the chapter that uses a simple graphic to engage the students. Rather than asking

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them to average 10 numbers together, they learn the concepts in the context of a fun example that generates something visually interesting. Using the graphics examples is optional in this textbook. Turtle graphics can be used in Chapters 1-5 to introduce

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the fundamentals of programming and Tkinter can be used for developing comprehensive graphical user interfaces and for learning object-oriented programming.

Design IT Organizations for
Agility at Scale Aspiring digital

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businesses need overall IT agility, not just development team agility. In Agile IT Organization Design , IT management consultant and ThoughtWorks veteran Sriram Narayan shows how to infuse agility throughout your organization. Drawing on

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more than fifteen years' experience working with enterprise clients in IT-intensive industries, he introduces an agile approach to "Business-IT Effectiveness" that is as practical as it is valuable. The author shows how structural, political,

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operational, and cultural facets of organization design influence overall IT agility—and how you can promote better collaboration across diverse functions, from sales and marketing to product development, and engineering to IT operations. Through real

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examples, he helps you evaluate and improve organization designs that enhance autonomy, mastery, and purpose: the key ingredients for a highly motivated workforce. You'll find "close range" coverage of team design, accountability, alignment, project

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finance, tooling, metrics, organizational norms, communication, and culture. For each, you'll gain a deeper understanding of where your organization stands, and clear direction for making improvements. Ready to optimize

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organization or digital business?
Here are practical solutions for
the long term, and for right now.
Govern for value over
predictability Organize for
responsiveness, not lowest cost
Clarify accountability for

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outcomes and for decisions along
the way Strengthen the
alignment of autonomous teams
Move beyond project teams to
capability teams Break down tool-
induced silos Choose financial
practices that are free of harmful
side effects Create and retain

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great teams despite today's
“talent crunch” Reform metrics
to promote (not prevent) agility
Evolve culture through
improvements to structure,
practices, and leadership—and
careful, deliberate interventions
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reading for everyone in contemporary business.” --Peter Woodhull, CEO, Modus21 “The one book that clearly describes and links Big Data concepts to business utility.” --Dr.

Christopher Starr, PhD “Simply, this is the best Big Data book on

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the market!” --Sam Rostam,
Cascadian IT Group “...one of the
most contemporary approaches
I’ve seen to Big Data
fundamentals...” --Joshua M.
Davis, PhD The Definitive Plain-
English Guide to Big Data for
Business and Technology

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Professionals Big Data
Fundamentals provides a
pragmatic, no-nonsense
introduction to Big Data. Best-
selling IT author Thomas Erl and
his team clearly explain key Big
Data concepts, theory and
terminology, as well as

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fundamental technologies and techniques. All coverage is supported with case study examples and numerous simple diagrams. The authors begin by explaining how Big Data can propel an organization forward by solving a spectrum of

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previously intractable business problems. Next, they demystify key analysis techniques and technologies and show how a Big Data solution environment can be built and integrated to offer competitive advantages.

Discovering Big Data's

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fundamental concepts and what makes it different from previous forms of data analysis and data science Understanding the business motivations and drivers behind Big Data adoption, from operational improvements through innovation Planning

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strategic, business-driven Big
Data initiatives Addressing
considerations such as data
management, governance, and
security Recognizing the 5 “V”
characteristics of datasets in Big
Data environments: volume,
velocity, variety, veracity, and

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value Clarifying Big Data's
relationships with OLTP, OLAP,
ETL, data warehouses, and data
marts Working with Big Data in
structured, unstructured, semi-
structured, and metadata formats
Increasing value by integrating
Big Data resources with

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corporate performance
monitoring Understanding how
Big Data leverages distributed
and parallel processing Using
NoSQL and other technologies to
meet Big Data's distinct data
processing requirements
Leveraging statistical approaches

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of quantitative and qualitative
analysis Applying computational
analysis methods, including
machine learning
Implementing Domain-driven
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Experiential Learning
Agile Analytics

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Conventions of Thought

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Elemental Design Patterns

*The complete guide to provisioning
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*data center solutions Could
computing will revolutionize the way
IT resources are deployed,
configured, and managed for years
to come. Service providers and
customers each stand to realize
tremendous value from this*

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It introduces cloud 'newcomers' to essential concepts, and offers experienced operations professionals detailed guidance on delivering Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a

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Service (SaaS). This book's replicable solutions and fully-tested best practices will help enterprises, services providers, consultants, and Cisco partners meet the challenge of provisioning end-to-end cloud infrastructures. Drawing on

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extensive experience working with leading cloud vendors and integrators, the authors present detailed operations workflow examples, proven techniques for operating cloud-based network, compute, and storage

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infrastructure; a comprehensive management reference architecture; and a complete case study demonstrating rapid, lower-cost solutions design. Cloud Computing will be an indispensable resource for all network/IT

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*professionals and managers
involved with planning,
implementing, or managing the next
generation of cloud computing
services. • •Review the key
concepts needed to successfully
deploy and cloud-based services*

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- *Transition common enterprise design patterns and use cases to the cloud*
- *Master architectural principles and infrastructure design for 'real-time' managed IT services*
- *Understand the Cisco approach to cloud-related technologies,*

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systems, and services •Develop a cloud management architecture using ITIL, TMF, and ITU-TMN standards •Implement best practices for cloud service provisioning, activation, and management •Automate cloud

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*infrastructure to simplify service
delivery, monitoring and assurance*

- Choose and implement the right
billing/chargeback approaches for
your business*
- Design and build
IaaS services, from start to finish*
- Manage the unique capacity*

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*challenges associated with
sporadic, real-time demand*

*•Provide a consistent and optimal
cloud user experience This book is
part of the Networking Technology
Series from Cisco Press, which
offers networking professionals*

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*valuable information for
constructing efficient networks,
understanding new technologies,
and building successful careers.
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Solving Fascinating Problems
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Business Review recently called data science “The Sexiest Job of the 21st Century.” It’s not just sexy: For millions of managers, analysts, and students who need to solve real business problems, it’s indispensable. Unfortunately,

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there's been nothing easy about learning data science—until now. Getting Started with Data Science takes its inspiration from worldwide best-sellers like Freakonomics and Malcolm Gladwell's Outliers: It teaches through a powerful

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agnostic, so you can learn data science whether you work with R, Stata, SPSS, or SAS. Best of all, Haider teaches a crucial skillset most data science books ignore: how to tell powerful stories using graphics and tables. Every chapter

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spending on alcohol? For each problem, you'll walk through defining your question and the answers you'll need; exploring how others have approached similar challenges; selecting your data and methods; generating your statistics;

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more successful solutions. In this fully updated Second Edition, you will: Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain-driven design in both theory and implementation Shift your

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*approach to code first, model
later—including multilayer
architecture Capture the benefits of
prioritizing software maintainability
See how readability, testability, and
extensibility lead to code quality
Take a user experience (UX) first*

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approach, rather than designing for data Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer, including

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Using Agile methods, you can bring
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conventional Agile methods must*

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consisting of diverse operational, legacy, and specialty systems that mix commercial and custom code. Using working examples, he shows how to manage analytics development teams with widely diverse skill sets and how to

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"A very rich book sprinkled with real-life examples as well as battle-tested advice." —Pierre Haren, VP ILOG, IBM

"James does a thorough job of explaining Decision Management Systems as enablers of a formidable business

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transformation.” —Deepak Advani, Vice President, Business Analytics Products and SPSS, IBM Build Systems That Work Actively to Help You Maximize Growth and Profits Most companies rely on operational systems that are largely

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passive. But what if you could make your systems active participants in optimizing your business? What if your systems could act intelligently on their own? Learn, not just report? Empower users to take action instead of simply escalating

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their problems? Evolve without massive IT investments? Decision Management Systems can do all that and more. In this book, the field's leading expert demonstrates how to use them to drive unprecedented levels of business

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value. James Taylor shows how to integrate operational and analytic technologies to create systems that are more agile, more analytic, and more adaptive. Through actual case studies, you'll learn how to combine technologies such as predictive

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analytics, optimization, and business rules—improving customer service, reducing fraud, managing risk, increasing agility, and driving growth. Both a practical how-to guide and a framework for planning, Decision Management

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Systems focuses on mainstream business challenges. Coverage includes Understanding how Decision Management Systems can transform your business Planning your systems “with the decision in mind” Identifying, modeling, and

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*prioritizing the decisions you need
to optimize Designing and
implementing robust decision
services Monitoring your ongoing
decision-making and learning how
to improve it Proven enablers of
effective Decision Management*

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*Systems: people, process, and
technology Identifying and
overcoming obstacles that can
derail your Decision Management
Systems initiative
Logical Data Modeling offers
business managers, analysts, and*

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students a clear, basic systematic guide to defining business information structures in relational database terms. The approach, based on Clive Finkelstein's business-side Information Engineering, is hands-on, practical, and explicit in

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terminology and reasoning. Filled with illustrations, examples, and exercises, Logical Data Modeling makes its subject accessible to readers with only a limited knowledge of database systems. The book covers all essential topics

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thoroughly but succinctly: entities, associations, attributes, keys and inheritance, valid and invalid structures, and normalization. It also emphasizes communication with business and database specialists, documentation, and the

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*use of Visible Systems' Visible
Advantage enterprise modeling tool.
The application of design patterns
to logical data modeling provides
practitioners with a practical tool
for fast development. At the end, a
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when the logical data model is translated into the design for a physical database.

Explains how to build applications with Jakarta Struts, discusses the development framework and its architecture, and provides sample

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applications.

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