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Managing Data In Motion Data Integration Best Practice Techniques And Technologies The Morgan Kaufmann Series On Business Intelligence

Start empowering users
and protecting corporate
data, while managing
identities and access
with Microsoft Azure in
different environments
Key Features Understand

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how to identify and
manage business drivers
during transitions
Explore Microsoft
Identity and Access
Management as a Service
(IDaaS) solution Over 40
playbooks to support
your learning process
with practical
guidelines Book
Description Microsoft
Azure and its Identity
and access management
are at the heart of
Microsoft's software as
service products,
including Office 365,
Dynamics CRM, and

Download File PDF Managing Data In Motion Data Integration Best Practice Techniques And Enterprise Mobility Technologies The Morgan Kaufmann Series On Business Intelligence Management. It is crucial to master Microsoft Azure in order to be able to work with the Microsoft Cloud effectively. You'll begin by identifying the benefits of Microsoft Azure in the field of identity and access management. Working through the functionality of identity and access management as a service, you will get a full overview of the Microsoft strategy.

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Understanding identity
synchronization will
help you to provide a
well-managed identity.
Project scenarios and
examples will enable you
to understand,
troubleshoot, and
develop on essential
authentication protocols
and publishing
scenarios. Finally, you
will acquire a thorough
understanding of
Microsoft Information
protection technologies.
What you will learn
Apply technical
descriptions to your

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business needs and
deployments Manage cloud-
only, simple, and
complex hybrid
environments Apply
correct and efficient
monitoring and identity
protection strategies
Design and deploy custom
Identity and access
management solutions
Build a complete
identity and access
management life cycle
Understand
authentication and
application publishing
mechanisms Use and
understand the most

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crucial identity
synchronization
scenarios Implement a
suitable information
protection strategy Who
this book is for This
book is a perfect
companion for
developers, cyber
security specialists,
system and security
engineers, IT
consultants/architects,
and system
administrators who are
looking for perfectly
up-to-date hybrid and
cloud-only scenarios.
You should have some

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understanding of
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security solutions,
Kaufmann Series On Business
Active Directory, access
Intelligence

privileges/rights, and
authentication methods.
Programming knowledge is
not required but can be
helpful for using
PowerShell or working
with APIs to customize
your solutions.
Today's malware mutates
randomly to avoid
detection, but
reactively adaptive
malware is more
intelligent, learning
and adapting to new
computer defenses on the

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fly. Using the same algorithms that antivirus software uses to detect viruses, reactively adaptive malware deploys those algorithms to outwit antivirus defenses and to go undetected. This book provides details of the tools, the types of malware the tools will detect, implementation of the tools in a cloud computing framework and the applications for insider threat detection.

As technology weaves

Download File PDF Managing Data In Motion Data Integration Best Practice Techniques And itself more tightly into Technologies The Morgan Kaufmann Series On Business Intelligence everyday life, socio-economic development has become intricately tied to these ever-evolving innovations. Technology management is now an integral element of sound business practices, and this revolution has opened up many opportunities for global communication. However, such swift change warrants greater research that can foresee and possibly prevent future complications within and

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between organizations.
The Handbook of Research
on Engineering
Innovations and
Technology Management in
Organizations is a
collection of innovative
research that explores
global concerns in the
applications of
technology to business
and the explosive growth
that resulted.

Highlighting a wide
range of topics such as
cyber security, legal
practice, and artificial
intelligence, this book
is ideally designed for

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engineers,
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manufacturers,
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technology managers,
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technology developers,
IT specialists,
productivity
consultants, executives,
lawyers, programmers,
managers, policymakers,
academicians,
researchers, and
students.

Promise, Application and
Pitfalls

Boost your Big Data IQ!
Gain insight into how to
govern and consume IBM's
unique in-motion and at-
rest Big Data analytic

Download File PDF Managing Data In Motion Data Integration Best Practice Techniques And capabilities Big Data Technologies The Morgan Kaufmann Series On Business Intelligence represents a new era of computing—an inflection point of opportunity where data in any format may be explored and utilized for breakthrough insights—whether that data is in-place, in-motion, or at-rest. IBM is uniquely positioned to help clients navigate this transformation. This book reveals how IBM is infusing open source Big Data technologies with IBM innovation that manifest

Download File PDF Managing Data In Motion Data Integration Best Practice Techniques And in a platform capable of Technologies The Morgan Kaufmann Series On Business Intelligence "changing the game." The four defining characteristics of Big Data—volume, variety, velocity, and veracity—are discussed. You'll understand how IBM is fully committed to Hadoop and integrating it into the enterprise. Hear about how organizations are taking inventories of their existing Big Data assets, with search capabilities that help organizations discover what they could already

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know, and extend their reach into new data territories for unprecedented model accuracy and discovery. In this book you will also learn not just about the technologies that make up the IBM Big Data platform, but when to leverage its purpose-built engines for analytics on data in-motion and data at-rest. And you'll gain an understanding of how and when to govern Big Data, and how IBM's industry-leading InfoSphere

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integration and
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governance portfolio
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helps you understand,
Intelligence

govern, and effectively
utilize Big Data.

Industry use cases are
also included in this
practical guide.

Big data modeling is
very challenging to
handle using traditional
database modeling and
management systems. This
book will teach you how
to model big data using
the latest and more
efficient tools such as
ERWIN, ANACONDA

(Python), and WEKA to

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model data.

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Developers, designers,
engineers, and creators
can no longer afford to
pass responsibility for
identity and data
security onto others.

Web developers who don't
understand how to
obscure data in
transmission, for
instance, can open
security flaws on a site
without realizing it.

With this practical
guide, you'll learn how
and why everyone working
on a system needs to
ensure that users and

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data are protected. Authors Jonathan LeBlanc and Tim Messerschmidt provide a deep dive into the concepts, technology, and programming methodologies necessary to build a secure interface for data and identity—without compromising usability. You'll learn how to plug holes in existing systems, protect against viable attack vectors, and work in environments that sometimes are naturally insecure.

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Understand the state of
web and application
security today Design
security password
encryption, and combat
password attack vectors
Create digital
fingerprints to identify
users through browser,
device, and paired
device detection Build
secure data transmission
systems through OAuth
and OpenID Connect Use
alternate methods of
identification for a
second factor of
authentication Harden
your web applications

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Intelligence
against attack Create a
secure data transmission
system using SSL/TLS,
and synchronous and
asynchronous
cryptography

How do we enable our
organizations to enjoy
the often significant
benefits of BI and
analytics, while at the
same time minimizing the
cost and risk of
failure? In this book, I
am not going to try to
be prescriptive; I won't
tell you exactly how to
build your BI
environment. Instead, I

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am going to focus on a few core principles that will enable you to navigate the rocky shoals of BI architecture and arrive at a destination best suited for your particular organization. Some of these core principles include: . Have an overarching strategy, plan, and roadmap . Recognize and leverage your existing technology investments . Support both data discovery and data reuse . Keep data in motion,

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not at rest . Separate
Technologies The Morgan
information delivery
Kaufmann Series On Business
from data storage .
Intelligence

Emphasize data
transparency over data
quality . Take an agile
approach to BI
development. This book
will show you how to
successfully navigate
both the jungle of BI
technology and the
minefield of human
nature. It will show you
how to create a BI
architecture and
strategy that addresses
the needs of all
organizational

stakeholders. It will show you how to maximize the value of your BI investments. It will show you how to manage the risk of disruptive technology. And it will show you how to use agile methodologies to deliver on the promise of BI and analytics quickly, succinctly, and iteratively. This book is about many things. But principally, it's about success. The goal of any enterprise initiative is to succeed and to derive

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benefit-benefit that all
stakeholders can share
in. I want you to be
successful. I want your
organization to be
successful. This book
will show you how. This
book is for anyone who
is currently or will
someday be working on a
BI, analytics, or Big
Data project, and for
organizations that want
to get the maximum
amount of value from
both their data and
their BI technology
investment. This
includes all

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stakeholders in the BI effort—not just the data people or the IT people, but also the business stakeholders who have the responsibility for the definition and use of data. There are six sections to this book: In Section I, *What Kind of Garden Do You Want?*, we will examine the benefits and risks of Business Intelligence, making the central point that BI is a business (not IT) process designed to manage data assets in pursuit of

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enterprise goals. We will show how data, when properly managed and used, can be a key enabler of several types of core business processes. The purpose of this section is to help you define the particular benefit(s) you want from BI. In Section II, Building the Bones, we will talk about how to design and build out the “hardscape” (infrastructure) of your BI environment. This stage of the process

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involves leveraging existing technology investments and iteratively moving toward your desired target state BI architecture. In Section III, From the Ground Up, we explore the more detailed aspects of implementing your BI operational environment. In Section IV, Weeds, Pests and Critters, we talk about the myriad of things that can go wrong on a BI project, and discuss ways of mitigating these risks.

In Section V, The Sustainable Garden, we talk about how to create a BI infrastructure that is easy and inexpensive to maintain. Finally, Section VI presents a case study illustrating the principles of this book, as applied to a fictional manufacturing company (the Blue Moon Guitar Company).

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Sciences

Kafka: The Definitive
Guide

Introduction to Hadoop,
Spark, and Machine-
Learning

Handbook of Research on
Engineering Innovations
and Technology

Management in
Organizations

An Enterprise

Perspective on Risks and
Compliance

Hands-On Big Data
Modeling

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IBM InfoSphere Streams
Harnessing Data in
Motion
Challenges and
Opportunities
ICIREIE 2015

This book constitutes the refereed proceedings of the scientific track of the 7th Software Quality Days Conference, SWQD 2015, held in Vienna, Austria, in January 2015. The SWQD conference offers a range of comprehensive and valuable information by presenting new ideas from the

latest research papers, keynote speeches by renowned academics and industry leaders, professional lectures, exhibits, and tutorials. The four scientific full papers accepted for SWQD were each peer reviewed by three or more reviewers and selected out of 13 high-quality submissions. Further, four short papers were also presented and are included in this book. The papers are organized into topical sections on risk management and inspection, change impact analysis and systems testing, and software and systems architectures. This volume provides challenges and Opportunities

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with updated, in-depth material on the application of Big data to complex systems in order to find solutions for the challenges and problems facing big data sets applications. Much data today is not natively in structured format; for example, tweets and blogs are weakly structured pieces of text, while images and video are structured for storage and display, but not for semantic content and search. Therefore transforming such content into a structured format for later analysis is a major challenge. Data analysis, organization, retrieval, and modeling are other foundational challenges treated in this book.

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The material of this book will be useful for researchers and practitioners in the field of big data as well as advanced undergraduate and graduate students. Each of the 17 chapters in the book opens with a chapter abstract and key terms list. The chapters are organized along the lines of problem description, related works, and analysis of the results and comparisons are provided whenever feasible. Virtual, hands-on learning labs allow you to apply your technical skills in realistic environments. So Sybex has bundled AWS labs from XtremeLabs with our popular

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AWS Certified Data Analytics Study Guide to give you the same experience working in these labs as you prepare for the Certified Data Analytics Exam that you would face in a real-life application. These labs in addition to the book are a proven way to prepare for the certification and for work as an AWS Data Analyst. AWS Certified Data Analytics Study Guide: Specialty (DAS-C01) Exam is intended for individuals who perform in a data analytics-focused role. This UPDATED exam validates an examinee's comprehensive understanding of using AWS services to design, build, secure, and maintain

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analytics solutions that provide insight from data. It assesses an examinee's ability to define AWS data analytics services and understand how they integrate with each other; and explain how AWS data analytics services fit in the data lifecycle of collection, storage, processing, and visualization.

The book focuses on the following domains:

- Collection

- Storage and Data

- Management
- Processing

- Analysis and Visualization
- Data Security

This is your opportunity to take the next step in your career by expanding and validating your skills on the AWS cloud. AWS is

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the frontrunner in cloud computing products and services, and the AWS Certified Data Analytics Study Guide: Specialty exam will get you fully prepared through expert content, and real-world knowledge, key exam essentials, chapter review questions, and much more. Written by an AWS subject-matter expert, this study guide covers exam concepts, and provides key review on exam topics. Readers will also have access to Sybex's superior online interactive learning environment and test bank, including chapter tests, practice exams, a glossary of key terms,

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and electronic flashcards. And included with this version of the book, XtremeLabs virtual labs that run from your browser.

The registration code is included with the book and gives you 6 months of unlimited access to XtremeLabs AWS Certified Data Analytics Labs with 3 unique lab modules based on the book.

While many companies ponder implementation details such as distributed processing engines and algorithms for data analysis, this practical book takes a much wider view of big data development, starting with initial planning and moving diligently toward execution.

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Authors Ted Malaska and
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Authors Ted Malaska and Jonathan Seidman guide you through the major components necessary to start, architect, and develop successful big data projects. Everyone from CIOs and COOs to lead architects and developers will explore a variety of big data architectures and applications, from massive data pipelines to web-scale applications. Each chapter addresses a piece of the software development life cycle and identifies patterns to maximize long-term success throughout the life of your project. Start the planning process by considering the key data project types Use

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Reduce risk related to
technology, your team, and
vague requirements Explore
system interface design using
APIs, REST, and pub/sub
systems Choose the right
distributed storage system for
your big data system Plan and
implement metadata collections
for your data architecture Use
data pipelines to ensure data
integrity from source to final
storage Evaluate the attributes
of various engines for
processing the data you collect
In cyber-physical systems
(CPS), sensors and embedded
systems are networked

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together to monitor and manage a range of physical processes through a continuous feedback system. This allows distributed computing using wireless devices. Cyber-Physical Systems—A Computational Perspective examines various developments of CPS that are impacting our daily lives and sets the stage for future directions in this domain. The book is divided into six sections. The first section covers the physical infrastructure required for CPS, including sensor networks and embedded systems. The second section addresses energy issues in CPS with the use of

supercapacitors and reliability assessment. In the third section, the contributors describe the modeling of CPS as a network of robots and explore issues regarding the design of CPS. The fourth section focuses on the impact of ubiquitous computing and cloud computing in CPS and the fifth section discusses security and privacy issues in CPS. The final section covers the role of CPS in big data analytics, social network analysis, and healthcare. As CPS are becoming more complex, pervasive, personalized, and dependable, they are moving beyond niche laboratories to real-life

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application areas, such as robotics, smart grids, green computing, and healthcare. This book provides you with a guide to current CPS research and development that will contribute to a "smarter" planet.

An Executive Guide to Data Management

The era of rapidly progressing technology we live in generates vast amounts of data; however, the challenge exists in understanding how to aggressively monitor and make sense of this data. Without a better understanding of how to collect and manage such large data sets, it becomes increasingly difficult to

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successfully utilize them. Managing Big Data Integration in the Public Sector is a pivotal reference source for the latest scholarly research on the application of big data analytics in government contexts and identifies various strategies in which big data platforms can generate improvements within that sector. Highlighting issues surrounding data management, current models, and real-world applications, this book is ideally designed for professionals, government agencies, researchers, and non-profit organizations interested in the benefits of big data analytics applied in the public sphere.

Every enterprise application creates data, whether it's log messages, metrics, user activity, outgoing messages, or something else. And how to move all of this data becomes nearly as important as the data itself. If you're an application architect, developer, or production engineer new to Apache Kafka, this practical guide shows you how to use this open source streaming platform to handle real-time data feeds. Engineers from Confluent and LinkedIn who are responsible for developing Kafka explain how to deploy production Kafka clusters, write reliable event-driven

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microservices, and build scalable stream-processing applications with this platform. Through detailed examples, you'll learn Kafka's design principles, reliability guarantees, key APIs, and architecture details, including the replication protocol, the controller, and the storage layer. Understand publish-subscribe messaging and how it fits in the big data ecosystem. Explore Kafka producers and consumers for writing and reading messages Understand Kafka patterns and use-case requirements to ensure reliable data delivery Get best practices for building data pipelines and

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[Managing Data Motion](#)

[Cyber-Physical Systems](#)

[Identity and Data Security for](#)

[Web Development](#)

[Promise, Application and Pitfalls](#)

[The Netherlands Case Study](#)

[Big Data in Complex Systems](#)

[Growing Business Intelligence](#)

You may regard cloud computing as an ideal way for your company to control IT costs, but do you know how private and secure this service really is? Not many people do. With Cloud Security and Privacy, you'll learn what's at stake when you trust your data to the cloud, and what you can do to keep your virtual infrastructure

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and web applications secure. Ideal for IT staffers, information security and privacy practitioners, business managers, service providers, and investors alike, this book offers you sound advice from three well-known authorities in the tech security world. You'll learn detailed information on cloud computing security that-until now-has been sorely lacking. Review the current state of data security and storage in the cloud, including confidentiality, integrity, and availability Learn about the identity and access management (IAM) practice for authentication, authorization, and auditing of the users accessing cloud services Discover which security management frameworks and standards are relevant for the cloud Understand the privacy aspects you need to consider

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in the cloud, including how they compare with traditional computing models Learn the importance of audit and compliance functions within the cloud, and the various standards and frameworks to consider Examine security delivered as a service-a different facet of cloud security Understanding Motion Capture for Computer Animation discusses the latest technology developments in digital design, film, games, medicine, sports, and security engineering. Motion capture records a live-motion event and translates it into a digital context. It is the technology that converts a live performance into a digital performance. In contrast, performance animation is the actual performance that brings life to the character, even without using technology. If motion capture is the

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collection of data that represents motion, performance animation is the character that a performer represents. The book offers extensive information about motion capture. It includes state-of-the-art technology, methodology, and developments in the current motion-capture industry. In particular, the different ways to capture motions are discussed, including using cameras or electromagnetic fields in tracking a group of sensors. This book will be useful for students taking a course about digital filming, as well as for anyone who is interested in this topic. Completely revised to include almost 40% new content with emphasis on RF and Facial Motion Capture Systems Describes all the mathematical principles associated with motion capture and 3D character mechanics

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Helps you budget by explaining the costs associated with individualized motion capture projects

The Information System Consultant's Handbook familiarizes systems analysts, systems designers, and information systems consultants with underlying principles, specific documentation, and methodologies. Corresponding to the primary stages in the systems development life cycle, the book divides into eight sections: Principles Information Gathering and Problem Definition Project Planning and Project Management Systems Analysis Identifying Alternatives Component Design Testing and Implementation Operation and Maintenance Eighty-two chapters comprise the book, and each chapter covers a single tool, technique, set of principles, or methodology. The clear,

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concise narrative, supplemented with numerous illustrations and diagrams, makes the material accessible for readers - effectively outlining new and unfamiliar analysis and design topics.

Healthcare Data Analytics and Management help readers disseminate cutting-edge research that delivers insights into the analytic tools, opportunities, novel strategies, techniques and challenges for handling big data, data analytics and management in healthcare. As the rapidly expanding and heterogeneous nature of healthcare data poses challenges for big data analytics, this book targets researchers and bioengineers from areas of machine learning, data mining, data management, and healthcare providers, along with

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clinical researchers and physicians who are interested in the management and analysis of healthcare data. Covers data analysis, management and security concepts and tools in the healthcare domain Highlights electronic medical health records and patient information records Discusses the different techniques to integrate Big data and Internet-of-Things in healthcare, including machine learning and data mining Includes multidisciplinary contributions in relation to healthcare applications and challenges Most of the existing strong motion instrumentation on civil engineering structures is installed and operated as federal, state, university, industry or private applications, in many cases operated as a closed system. This hampers co-operation and data

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exchange, hampering the acquisition of strong motion and structural data, sometimes even within a single country. There is a powerful need to inform engineers of existing strong motion data and to improve the accessibility of data worldwide. This book will play a role in fulfilling such a need by disseminating state-of-the-art information, technology and developments in the strong motion instrumentation of civil engineering structures. The subject has direct implications for the earthquake response of structures, improvements in design for earthquake resistance, and hazard mitigation. Readership: Researchers in earthquake engineering, engineers designing earthquake resistant structures, and producers of strong motion recording equipment.

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The overall objective of this book is to show that data management is an exciting and valuable capability that is worth time and effort. More specifically it aims to achieve the following goals: 1. To give a “gentle” introduction to the field of DM by explaining and illustrating its core concepts, based on a mix of theory, practical frameworks such as TOGAF, ArchiMate, and DMBOK, as well as results from real-world assignments. 2. To offer guidance on how to build an effective DM capability in an organization. This is illustrated by various use cases, linked to the previously mentioned theoretical exploration as well as the stories of practitioners in the field. The primary target groups are: busy professionals who “are actively involved with managing data”. The

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book is also aimed at (Bachelor 's/ Master 's) students with an interest in data management. The book is industry-agnostic and should be applicable in different industries such as government, finance, telecommunications etc. Typical roles for which this book is intended: data governance office/ council, data owners, data stewards, people involved with data governance (data governance board), enterprise architects, data architects, process managers, business analysts and IT analysts. The book is divided into three main parts: theory, practice, and closing remarks. Furthermore, the chapters are as short and to the point as possible and also make a clear distinction between the main text and the examples. If the reader is already familiar with the topic of a

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chapter, he/she can easily skip it and move on to the next.

We are rapidly heading towards a world in which the computing infrastructure will contain billions of devices, which will interact with other computing/communications devices that are carried or worn by users as they go through their daily routines. Such devices will provide data access to mobile users as they move within buildings, cities, or across the globe. This new infrastructure presents tremendous challenges for data management technology, including: huge scale; variable and intermittent connectivity; location and context-aware applications; bandwidth, power, and device size limitations; and multimedia data delivery across hybrid networks and systems. Traditional data management

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Best Practice Techniques And
Technologies such as query
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Intelligence, workflow, business process
management, and metadata

management must all be reevaluated
in this emerging environment.

Furthermore, nontraditional issues
such as the semantics of mobile data,
location-dependent querying,
broadcast and multicast delivery, and
caching/prefetching techniques must
all be addressed. The ability to track
people as they move about their daily
tasks raises serious issues of security
and privacy. This conference is the
fourth in the Mobile Data
Management series, focusing on the
challenges and opportunities for the
management of data in mobile,
pervasive, and wearable computing.
MDM 2000 and 2001 were in Hong
Kong and MDM 2002 was in

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Singapore. Eighty-seven papers were submitted to the conference from 23 countries and were subject to a rigorous review procedure. Every paper had three or four independent reviews. Twenty-one full papers and 15 short papers from both academia and industry were selected for publication in this volume of proceedings.

Managing Data in Motion describes techniques that have been developed for significantly reducing the complexity of managing system interfaces and enabling scalable architectures. Author April Reeve brings over two decades of experience to present a vendor-neutral approach to moving data between computing environments and systems. Readers will learn the techniques, technologies, and best

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practices for managing the passage of data between computer systems and integrating disparate data together in an enterprise environment. The average enterprise's computing environment is comprised of hundreds to thousands computer systems that have been built, purchased, and acquired over time. The data from these various systems needs to be integrated for reporting and analysis, shared for business transaction processing, and converted from one format to another when old systems are replaced and new systems are acquired. The management of the "data in motion" in organizations is rapidly becoming one of the biggest concerns for business and IT management. Data warehousing and conversion, real-time data

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Integration, and cloud and "big data" applications are just a few of the challenges facing organizations and businesses today. Managing Data in Motion tackles these and other topics in a style easily understood by business and IT managers as well as programmers and architects. Presents a vendor-neutral overview of the different technologies and techniques for moving data between computer systems including the emerging solutions for unstructured as well as structured data types Explains, in non-technical terms, the architecture and components required to perform data integration Describes how to reduce the complexity of managing system interfaces and enable a scalable data architecture that can handle the dimensions of "Big Data"

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Between the high-level concepts of business intelligence and the nitty-gritty instructions for using vendors' tools lies the essential, yet poorly-understood layer of architecture, design and process. Without this knowledge, Big Data is belittled – projects flounder, are late and go over budget. Business Intelligence Guidebook: From Data Integration to Analytics shines a bright light on an often neglected topic, arming you with the knowledge you need to design rock-solid business intelligence and data integration processes. Practicing consultant and adjunct BI professor Rick Sherman takes the guesswork out of creating systems that are cost-effective, reusable and essential for transforming raw data into valuable information for business decision-makers. After reading this book, you

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will be able to design the overall architecture for functioning business intelligence systems with the supporting data warehousing and data-integration applications. You will have the information you need to get a project launched, developed, managed and delivered on time and on budget – turning the deluge of data into actionable information that fuels business knowledge. Finally, you'll give your career a boost by demonstrating an essential knowledge that puts corporate BI projects on a fast-track to success. Provides practical guidelines for building successful BI, DW and data integration solutions. Explains underlying BI, DW and data integration design, architecture and processes in clear, accessible language. Includes the complete project development lifecycle that can be applied at large enterprises

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as well as at small to medium-sized businesses. The Morgan Kaufmann Series On Business Intelligence describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples, further discussion of key topics, instructor materials, and references to trusted industry sources. These conference proceedings focus on the topics of data-driven decision-making, stochastic decision-making, fuzzy decision-making and their applications in real-life problems. Beijing University of Chemical Technology organized IFDS2016, the 4th International Forum on Decision Sciences, with the theme "Data-Driven Decision-Making." The proceedings collect 84 selected papers presenting cutting-edge modeling and solution methods and include numerous practical case studies, making it a

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valuable resource for students,
researchers and practitioners working
in the fields of decision science,
operations research, management
science and engineering.

Cloud computing has proven to be a
successful paradigm of service-oriented
computing, and has revolutionized the
way computing infrastructures are
abstracted and used. By means of cloud
computing technology, massive data can
be managed effectively and efficiently to
support various aspects of problem
solving and decision making. *Managing
Big Data in Cloud Computing
Environments* explores the latest
advancements in the area of data
management and analysis in the cloud.
Providing timely, research-based
information relating to data storage,
sharing, extraction, and indexing in
cloud systems, this publication is an

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Ideal reference source for graduate students, IT specialists, researchers, and professionals working in the areas of data and knowledge engineering.

Big Data Imperatives, focuses on resolving the key questions on everyone's mind: Which data matters? Do you have enough data volume to justify the usage? How you want to process this amount of data? How long do you really need to keep it active for your analysis, marketing, and BI applications? Big data is emerging from the realm of one-off projects to mainstream business adoption; however, the real value of big data is not in the overwhelming size of it, but more in its effective use. This book addresses the following big data characteristics: Very large, distributed aggregations of loosely structured data – often incomplete and inaccessible

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Petabytes/Exabytes of data
Millions/billions of people
providing/contributing to the context
behind the data Flat schema's with few
complex interrelationships Involves
time-stamped events Made up of
incomplete data Includes connections
between data elements that must be
probabilistically inferred Big Data
Imperatives explains 'what big data can
do'. It can batch process millions and
billions of records both unstructured
and structured much faster and
cheaper. Big data analytics provide a
platform to merge all analysis which
enables data analysis to be more
accurate, well-rounded, reliable and
focused on a specific business capability.
Big Data Imperatives describes the
complementary nature of traditional
data warehouses and big-data analytics
platforms and how they feed each other.

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This book aims to bring the big data and analytics realms together with a greater focus on architectures that leverage the scale and power of big data and the ability to integrate and apply analytics principles to data which earlier was not accessible. This book can also be used as a handbook for practitioners; helping them on methodology, technical architecture, analytics techniques and best practices. At the same time, this book intends to hold the interest of those new to big data and analytics by giving them a deep insight into the realm of big data. In this IBM® Redbooks® publication, we discuss and describe the positioning, functions, capabilities, and advanced programming techniques for IBM InfoSphere™ Streams (V1). See: <http://www.redbooks.ibm.com/abstracts/sg247970.html> for the newer InfoSphere

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Streams (V2) release. Stream computing is a new paradigm. In traditional processing, queries are typically run against relatively static sources of data to provide a query result set for analysis. With stream computing, a process that can be thought of as a continuous query, that is, the results are continuously updated as the data sources are refreshed. So, traditional queries seek and access static data, but with stream computing, a continuous stream of data flows to the application and is continuously evaluated by static queries. However, with IBM InfoSphere Streams, those queries can be modified over time as requirements change. IBM InfoSphere Streams takes a fundamentally different approach to continuous processing and differentiates itself with its distributed runtime platform, programming model,

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and tools for developing continuous processing applications. The data streams consumable by IBM InfoSphere Streams can originate from sensors, cameras, news feeds, stock tickers, and a variety of other sources, including traditional databases. It provides an execution platform and services for applications that ingest, filter, analyze, and correlate potentially massive volumes of continuous data streams. Executing Data Quality Projects, Second Edition presents a structured yet flexible approach for creating, improving, sustaining and managing the quality of data and information within any organization. Studies show that data quality problems are costing businesses billions of dollars each year, with poor data linked to waste and inefficiency, damaged credibility among customers and suppliers, and an

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Technologies Help is here! This book
describes a proven Ten Step approach
that combines a conceptual framework
for understanding information quality
with techniques, tools, and instructions
for practically putting the approach to
work – with the end result of high-
quality trusted data and information, so
critical to today's data-dependent
organizations. The Ten Steps approach
applies to all types of data and all types
of organizations – for-profit in any
industry, non-profit, government,
education, healthcare, science, research,
and medicine. This book includes
numerous templates, detailed examples,
and practical advice for executing every
step. At the same time, readers are
advised on how to select relevant steps
and apply them in different ways to best
address the many situations they will

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face. The layout allows for quick reference with an easy-to-use format highlighting key concepts and definitions, important checkpoints, communication activities, best practices, and warnings. The experience of actual clients and users of the Ten Steps provide real examples of outputs for the steps plus highlighted, sidebar case studies called Ten Steps in Action. This book uses projects as the vehicle for data quality work and the word broadly to include: 1) focused data quality improvement projects, such as improving data used in supply chain management, 2) data quality activities in other projects such as building new applications and migrating data from legacy systems, integrating data because of mergers and acquisitions, or untangling data due to organizational breakups, and 3) ad hoc use of data

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quality steps, techniques, or activities in the course of daily work. The Ten Steps approach can also be used to enrich an organization's standard SDLC (whether sequential or Agile) and it complements general improvement methodologies such as six sigma or lean. No two data quality projects are the same but the flexible nature of the Ten Steps means the methodology can be applied to all. The new Second Edition highlights topics such as artificial intelligence and machine learning, Internet of Things, security and privacy, analytics, legal and regulatory requirements, data science, big data, data lakes, and cloud computing, among others, to show their dependence on data and information and why data quality is more relevant and critical now than ever before. Includes concrete instructions, numerous templates, and

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practical advice for executing every step of The Ten Steps approach. Contains real examples from around the world, gleaned from the author's consulting practice and from those who implemented based on her training courses and the earlier edition of the book. Allows for quick reference with an easy-to-use format highlighting key concepts and definitions, important checkpoints, communication activities, and best practices. A companion Web site includes links to numerous data quality resources, including many of the templates featured in the text, quick summaries of key ideas from the Ten Steps methodology, and other tools and information that are available online. After a short description of the key concepts of big data, the book explores on the secrecy and security threats posed especially by cloud based data.

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storage. It delivers conceptual frameworks and models along with case studies of recent technology.

Learn how to form and execute an enterprise information strategy: topics include data governance strategy, data architecture strategy, information security strategy, big data strategy, and cloud strategy. Manage information like a pro, to achieve much better financial results for the enterprise, more efficient processes, and multiple advantages over competitors. As you'll discover in *Enterprise Information Management in Practice*, EIM deals with both structured data (e.g. sales data and customer data) as well as unstructured data (like customer satisfaction forms, emails, documents, social network sentiments, and so forth). With the deluge of information that enterprises face given their global operations and

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complex business models, as well as the advent of big data technology, it is not surprising that making sense of the large piles of data is of paramount importance. Enterprises must therefore put much greater emphasis on managing and monetizing both structured and unstructured data. As Saumya Chaki—an information management expert and consultant with IBM—explains in *Enterprise Information Management in Practice*, it is now more important than ever before to have an enterprise information strategy that covers the entire life cycle of information and its consumption while providing security controls. With Fortune 100 consultant Saumya Chaki as your guide, *Enterprise Information Management in Practice* covers each of these and the other pillars of EIM in depth, which provide readers with a

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Best Practice Techniques And Technologies For EIM. Enterprises today deal with complex business environments where information demands take place in real time, are complex, and often serve as the differentiator among competitors. The effective management of information is thus crucial in managing enterprises. EIM has evolved as a specialized discipline in the business intelligence and enterprise data warehousing space to address the complex needs of information processing and delivery—and to ensure the enterprise is making the most of its information assets.

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*How do you approach answering
queries when your data is stored
in multiple databases that were
designed independently by
different people? This is first*

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comprehensive book on data integration and is written by three of the most respected experts in the field. This book provides an extensive introduction to the theory and concepts underlying today's data integration techniques, with detailed, instruction for their application using concrete examples throughout to explain the concepts. Data integration is the problem of answering queries that span multiple data sources (e.g., databases, web pages). Data integration problems surface in multiple contexts, including enterprise information integration, query processing on

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the Web, coordination between government agencies and collaboration between scientists. In some cases, data integration is the key bottleneck to making progress in a field. The authors provide a working knowledge of data integration concepts and techniques, giving you the tools you need to develop a complete and concise package of algorithms and applications. Offers a range of data integration solutions enabling you to focus on what is most relevant to the problem at hand Enables you to build your own algorithms and implement your own data integration applications

Advances in hardware technology have lead to an ability to collect data with the use of a variety of sensor technologies. In particular sensor notes have become cheaper and more efficient, and have even been integrated into day-to-day devices of use, such as mobile phones. This has lead to a much larger scale of applicability and mining of sensor data sets. The human-centric aspect of sensor data has created tremendous opportunities in integrating social aspects of sensor data collection into the mining process.

Managing and Mining Sensor Data is a contributed volume by

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prominent leaders in this field, targeting advanced-level students in computer science as a secondary text book or reference. Practitioners and researchers working in this field will also find this book useful. Proceedings of the International Conference on Interdisciplinary Research in Electronics and Instrumentation Engineering 2015 (ICIREIE)

Big Data Analytics(BDA) is a rapidly evolving field that finds applications in many areas such as healthcare, medicine, advertising, marketing, and sales. This book dwells on all the aspects of Big Data Analytics and

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covers the subject in its entirety. It comprises several illustrations, sample codes, case studies and real-life analytics of datasets such as toys, chocolates, cars, and student's GPAs. The book will serve the interests of undergraduate and post graduate students of computer science and engineering, information technology, and related disciplines. It will also be useful to software developers. Salient Features: - Comprehensive coverage on Big Data NoSQL Column-family, Object and Graph databases, programming with open-source Big Data - Hadoop and Spark ecosystem tools, such

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*as MapReduce, Hive, Pig, Spark,
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topics machine learning, K-NN,
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data management is one of the major challenges facing business, industry, and not-for-profit organizations. Data sets such as customer transactions for a mega-retailer, weather patterns monitored by meteorologists, or social network activity can quickly outpace the capacity of traditional data management tools. If you need to develop or manage big data solutions, you'll appreciate how these four experts define, explain, and guide you through this new and often confusing concept. You'll learn what it is, why it matters, and how to choose and implement solutions that

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work. Effectively managing big data is an issue of growing importance to businesses, not-for-profit organizations, government, and IT professionals Authors are experts in information management, big data, and a variety of solutions Explains big data in detail and discusses how to select and implement a solution, security concerns to consider, data storage and presentation issues, analytics, and much more Provides essential information in a no-nonsense, easy-to-understand style that is empowering Big Data For Dummies cuts through the confusion and helps you take

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