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# Principles Of Data Integration Pdf Download

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Data Sharing,  
and Data  
Protection  
across  
disparate data  
sources using  
different data

<p>management styles. Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn to design Data Fabric architecture effectively with your choice of tool Build and use a Data Fabric solution using DataOps and Data Mesh frameworks Find out how to build Data Integration, Data Governance, and Self-Service analytics architecture Book Description</p>	<p>Data can be found everywhere, from cloud environments and relational and non-relational databases to data lakes, data warehouses, and data lakehouses. Data management practices can be standardized across the cloud, on-premises, and edge devices with Data Fabric, a powerful architecture that creates a unified view of data. This book will enable you to</p>	<p>design a Data Fabric solution by addressing all the key aspects that need to be considered. The book begins by introducing you to Data Fabric architecture, why you need them, and how they relate to other strategic data management frameworks. You'll then quickly progress to grasping the principles of DataOps, an operational model for Data Fabric architecture. The next set of chapters</p>
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will show you how to combine Data Fabric with DataOps and Data Mesh and how they work together by making the most out of it. After that, you'll discover how to design Data Integration, Data Governance, and Self-Service analytics architecture. The book ends with technical architecture to implement distributed data management and regulatory compliance, followed by industry best

practices and principles. By the end of this data book, you will have a clear understanding of what Data Fabric is and what the architecture looks like, along with the level of effort that goes into designing a Data Fabric solution. What you will learn Understand the core components of Data Fabric solutions Combine Data Fabric with Data Mesh and DataOps frameworks Implement distributed data

management and regulatory compliance using Data Fabric Manage and enforce Data Governance with active metadata using Data Fabric Explore industry best practices for effectively implementing a Data Fabric solution Who this book is for If you are a data engineer, data architect, or business analyst who wants to learn all about implementing Data Fabric architecture, then this is the book for you. This book

will also benefit senior data professionals such as chief data officers looking to integrate Data Fabric architecture into the broader ecosystem.

**Data Mining and Data Warehousing**

Cambridge University Press  
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 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. Connecting the Data Elsevier Completely revised, expanded, and updated, this second edition gives extensive new coverage of data integration, management, indexing, cleansing, and transformation . The book covers powerful new multi-dimensional front-ends and conversion tools and gives detailed coverage of lifecycle issues.

**Principles of Big Data**  
Newnes  
A practical guide to implementing your enterprise data lake using Lambda Architecture as the base  
About This Book Build a full-fledged data lake for your organization with popular big data technologies using the Lambda architecture as the base  
Delve into the big data technologies required to meet modern day business strategies A

highly practical guide to implementing enterprise data lakes with lots of examples and real-world use-cases  
Who This Book Is For Java developers and architects who would like to implement a data lake for their enterprise will find this book useful. If you want to get hands-on experience with the Lambda Architecture and big data technologies by implementing a practical

<p>solution using these technologies, this book will also help you. What You Will Learn Build an enterprise-level data lake using the relevant big data technologies Understand the core of the Lambda architecture and how to apply it in an enterprise Learn the technical details around Sqoop and its functionalities Integrate Kafka with Hadoop components to acquire enterprise data Use</p>	<p>flume with streaming technologies for stream-based processing Understand stream-based processing with reference to Apache Spark Streaming Incorporate Hadoop components and know the advantages they provide for enterprise data lakes Build fast, streaming, and high-performance applications using ElasticSearch Make your data ingestion process consistent</p>	<p>across various data formats with configurability Process your data to derive intelligence using machine learning algorithms In Detail The term "Data Lake" has recently emerged as a prominent term in the big data industry. Data scientists can make use of it in deriving meaningful insights that can be used by businesses to redefine or transform the way they operate. Lambda architecture is</p>
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also emerging as one of the very eminent patterns in the big data landscape, as it not only helps to derive useful information from historical data but also correlates real-time data to enable business to take critical decisions. This book tries to bring these two important aspects — data lake and lambda architecture—together. This book is divided into three main sections. The first introduces you

to the concept of data lakes, the importance of data lakes in enterprises, and getting you up-to-speed with the Lambda architecture. The second section delves into the principal components of building a data lake using the Lambda architecture. It introduces you to popular big data technologies such as Apache Hadoop, Spark, Sqoop, Flume, and ElasticSearch. The third

section is a highly practical demonstration of putting it all together, and shows you how an enterprise data lake can be implemented, along with several real-world use-cases. It also shows you how other peripheral components can be added to the lake to make it more efficient. By the end of this book, you will be able to choose the right big data technologies using the lambda

architectural patterns to build your enterprise data lake. Style and approach The book takes a pragmatic approach, showing ways to leverage big data technologies and lambda architecture to build an enterprise-level data lake.

### **Data Mesh**

Artech House  
Summary  
Introducing Data Science teaches you how to accomplish the fundamental tasks that occupy data

scientists. Using the Python language and common Python libraries, you'll experience firsthand the challenges of dealing with data at scale and gain a solid foundation in data science. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Many companies need developers with data science skills

to work on projects ranging from social media marketing to machine learning. Discovering what you need to learn to begin a career as a data scientist can seem bewildering. This book is designed to help you get started. About the Book Introducing Data Science Introducing Data Science explains vital data science concepts and teaches you how to accomplish the



fundamental tasks that occupy data scientists. You'll explore data visualization, graph databases, the use of NoSQL, and the data science process. You'll use the Python language and common Python libraries as you experience firsthand the challenges of dealing with data at scale. Discover how Python allows you to gain insights from data sets so big that they need to be

stored on multiple machines, or from data moving so quickly that no single machine can handle it. This book gives you hands-on experience with the most popular Python data science libraries, Scikit-learn and StatsModels. After reading this book, you'll have the solid foundation you need to start a career in data science. What's Inside Handling large data

Introduction to machine learning Using Python to work with data Writing data science algorithms About the Reader This book assumes you're comfortable reading code in Python or a similar language, such as C, Ruby, or JavaScript. No prior experience with data science is required. About the Authors Davy Cielen, Arno D. B. Meysman, and Mohamed Ali are the

founders and managing partners of Optimately and Maiton, where they focus on developing data science projects and solutions in various sectors. Table of Contents  
 Data science in a big data world  
 The data science process  
 Machine learning  
 Handling large data on a single computer  
 First steps in big data  
 Join the NoSQL movement  
 The rise of graph databases

Text mining and text analytics  
 Data visualization to the end user

### **Big Data Integration**

Cambridge University Press  
 The big data era is upon us: data are being generated, analyzed, and used at an unprecedented scale, and data-driven decision making is sweeping through all aspects of society. Since the value of data explodes when it can be linked and fused with other data,

addressing the big data integration (BDI) challenge is critical to realizing the promise of big data. BDI differs from traditional data integration along the dimensions of volume, velocity, variety, and veracity. First, not only can data sources contain a huge volume of data, but also the number of data sources is now in the millions. Second, because of the rate at which

newly collected data are made available, many of the data sources are very dynamic, and the number of data sources is also rapidly exploding. Third, data sources are extremely heterogeneous in their structure and content, exhibiting considerable variety even for substantially similar entities. Fourth, the data sources are of widely differing qualities, with significant

differences in the coverage, accuracy and timeliness of data provided. This book explores the progress that has been made by the data integration community on the topics of schema alignment, record linkage and data fusion in addressing these novel challenges faced by big data integration. Each of these topics is covered in a systematic way: first starting with a quick tour of

the topic in the context of traditional data integration, followed by a detailed, example-driven exposition of recent innovative techniques that have been proposed to address the BDI challenges of volume, velocity, variety, and veracity. Finally, it presents merging topics and opportunities that are specific to BDI, identifying promising

directions for the data integration community. *Learning Pentaho Data Integration 8 CE* Technics Publications This newly revised and greatly expanded edition of the popular Artech House book *Principles of GNSS, Inertial, and Multisensor Integrated Navigation Systems* offers you a current and comprehensive understanding of satellite navigation, inertial navigation,

terrestrial radio navigation, dead reckoning, and environmental feature matching . It provides both an introduction to navigation systems and an in-depth treatment of INS/GNSS and multisensor integration. The second edition offers a wealth of added and updated material, including a brand new chapter on the principles of radio positioning and a chapter

devoted to important applications in the field. Other updates include expanded treatments of map matching, image-based navigation, attitude determination, acoustic positioning, pedestrian navigation, advanced GNSS techniques, and several terrestrial and short-range radio positioning technologies .. The book shows you how satellite, inertial, and other

navigation technologies work, and focuses on processing chains and error sources. In addition, you get a clear introduction to coordinate frames, multi-frame kinematics, Earth models, gravity, Kalman filtering, and nonlinear filtering. Providing solutions to common integration problems, the book describes and compares different integration architectures,

and explains how to model different error sources. You get a broad and penetrating overview of current technology and are brought up to speed with the latest developments in the field, including context-dependent and cooperative positioning.

**Adolescent Education and Pre-Employment Interventions in Australia Keeping Young People in Education,**

## **Employment and Training**

MIT Press Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS,

MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale

integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper

destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

### **Principles of Distributed Database Systems**

Packt Publishing Ltd  
A key task that any aspiring data-driven organization needs to learn is data wrangling, the process of converting raw data into

something truly useful. This practical guide provides business analysts with an overview of various data wrangling techniques and tools, and puts the practice of data wrangling into context by asking, "What are you trying to do and why?" Wrangling data consumes roughly 50-80% of an analyst's time before any kind of analysis is possible. Written by key executives at

Trifacta, this book walks you through the wrangling process by exploring several factors—time, granularity, scope, and structure—that you need to consider as you begin to work with data. You'll learn a shared language and a comprehensive understanding of data wrangling, with an emphasis on recent agile analytic processes used by many of today's data-driven

organizations. Appreciate the importance—and the satisfaction—of wrangling data the right way. Understand what kind of data is available. Choose which data to use and at what level of detail. Meaningfully combine multiple sources of data. Decide how to distill the results to a size and shape that can drive downstream analysis. *Data Lake for Enterprises* Springer Nature

This book provides an introduction to the mathematical and algorithmic foundations of data science, including machine learning, high-dimensional geometry, and analysis of large networks. Topics include the counterintuitive nature of data in high dimensions, important linear algebraic techniques such as singular value decomposition, the theory of random walks

and Markov chains, the fundamentals of and important algorithms for machine learning, algorithms and analysis for clustering, probabilistic models for large networks, representation learning including topic modelling and non-negative matrix factorization, wavelets and compressed sensing. Important probabilistic techniques are developed including the law of large numbers, tail

inequalities, analysis of random projections, generalization guarantees in machine learning, and moment methods for analysis of phase transitions in large random graphs. Additionally, important structural and complexity measures are discussed such as matrix norms and VC-dimension. This book is suitable for both undergraduate and graduate courses in the design and



analysis of algorithms for data. *Data Integration Life Cycle Management with SSIS* Packt Publishing Ltd This open access book explores the dataspace paradigm as a best-effort approach to data management within data ecosystems. It establishes the theoretical foundations and principles of real-time linked dataspace as a data platform for intelligent systems. The book introduces a set of specialized best-effort techniques and models to enable loose administrative proximity and semantic integration for managing and processing events and streams. The book is divided into five major parts: Part I “Fundamentals and Concepts” details the motivation behind and core concepts of real-time linked dataspace, and establishes the need to evolve data management techniques in order to meet the challenges of enabling data ecosystems for intelligent systems within smart environments. Further, it explains the fundamental concepts of dataspace and the need for specialization in the processing of dynamic real-time data. Part II “Data Support Services” explores the design and evaluation of critical

services, including catalog, entity management, query and search, data service discovery, and human-in-the-loop. In turn, Part III “Stream and Event Processing Services” addresses the design and evaluation of the specialized techniques created for real-time support services including complex event processing, event service composition, stream dissemination,

stream matching, and approximate semantic matching. Part IV “Intelligent Systems and Applications” explores the use of real-time linked dataspace within real-world smart environments. In closing, Part V “Future Directions” outlines future research challenges for dataspace, data ecosystems, and intelligent systems. Readers will gain a detailed understanding of how the dataspace

paradigm is now being used to enable data ecosystems for intelligent systems within smart environments. The book covers the fundamental theory, the creation of new techniques needed for support services, and lessons learned from real-world intelligent systems and applications focused on sustainability. Accordingly, it will benefit not only researchers and graduate

students in the fields of data management, big data, and IoT, but also professionals who need to create advanced data management platforms for intelligent systems, smart environments, and data ecosystems.

### **Managing Data in Motion**

John Wiley & Sons  
The present publication focusses the attention on new avenues in regional information and knowledge

management, while we will zoom in particularly on the potential promises and hurdles of digital technology. This digital challenge has already generated a wealth of implications in the area of smart or intelligent cities, but as yet far less has been achieved in the field of regional planning and regional science. There is clearly a need for a more systematic and wide-

ranging assessment and presentation of emerging approaches and concepts in this field, for instance, in regard to principles (e.g. geographic rule modeling), methodologies (e.g. blockchain systems), data analytics (e.g. machine learning) and data governance (e.g. data sovereignty) of regional information and knowledge. Especially in our 'big data' era, a

systematic, comprehensible and reliable acquisition, storage, sharing and handling of data (e.g. on the basis of systematic decomposition and filtering principles) is more needed than ever before. The present study seeks to present a selection of state-of-the-art contributions on advanced – often digitally-oriented – regional information and knowledge management foundations,

principles and practices written by several experts in the field of spatial informatics. These contributions were collected with a view to the design of a comprehensive knowledge and research agenda, which was discussed during a brainstorm workshop in Lyon, France (October 2021). This book covers various fields of interest, such as GeoAI, knowledge modelling, IoT and scalability,

space syntax, rule extraction, data governance and data self-sovereignty. It is concluded with a knowledge and research agenda outlining future endeavors in the field of the spatial information sciences (or spatial informatics). *Principles of Data Integration* CRC Press This engaging and clearly written textbook/reference provides a must-have introduction to

the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these

core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline

sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world. Includes "Homework Problems," providing a wide range of

exercises and projects for self-study. Provides a complete set of lecture slides and online video lectures at [www.data-manual.com](http://www.data-manual.com). Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter. Recommends exciting "Kaggle Challenges" from the online platform Kaggle. Highlights "False Starts," revealing the subtle reasons why certain

approaches fail. Offers examples taken from the data science television show "The Quant Shop" ([www.quant-shop.com](http://www.quant-shop.com)). *Principles of Data Mining*, Packt Publishing Ltd. Build a custom BimlExpress framework that generates dozens of SQL Server Integration Services (SSIS) packages in minutes. Use this framework to execute related SSIS packages in a single

command. You will learn to configure SSIS catalog projects, manage catalog deployments, and monitor SSIS catalog execution and history. *Data Integration Life Cycle Management with SSIS* shows you how to bring DevOps benefits to SSIS integration projects. Practices in this book enable faster time to market, higher quality of code, and repeatable automation.

Code will be created that is easier to support and maintain. The book teaches you how to more effectively manage SSIS in the enterprise environment by drawing on the art and science of modern DevOps practices. What You'll Learn Generate dozens of SSIS packages in minutes to speed your integration projects Reduce the execution of related groups of SSIS

packages to a single command Successfully handle SSIS catalog deployments and their projects Monitor the execution and history of SSIS catalog projects Manage your enterprise data integration life cycle through automated tools and utilities Who This Book Is For Database professionals working with SQL Server Integration Services in enterprise environments. The book is

especially useful to those readers following, or wishing to follow, DevOps practices in their use of SSIS. *Principles of Uncertainty* "O'Reilly Media, Inc." Principles of Big Data helps readers avoid the common mistakes that endanger all Big Data projects. By stressing simple, fundamental concepts, this book teaches readers how to organize large volumes of complex data, and how

to achieve data permanence when the content of the data is constantly changing. General methods for data verification and validation, as specifically applied to Big Data resources, are stressed throughout the book. The book demonstrates how adept analysts can find relationships among data objects held in disparate Big Data resources, when the data

objects are endowed with semantic support (i.e., organized in classes of uniquely identified data objects). Readers will learn how their data can be integrated with data from other resources, and how the data extracted from Big Data resources can be used for purposes beyond those imagined by the data creators. Learn general methods for specifying Big Data in a way that is understandabl

e to humans and to computers. Avoid the pitfalls in Big Data design and analysis. Understand how to create and use Big Data safely and responsibly with a set of laws, regulations and ethical standards that apply to the acquisition, distribution and integration of Big Data resources. *Pentaho Data Integration Cookbook* "O'Reilly Media, Inc." Praise for the first edition:



Principles of Uncertainty is a profound and mesmerising book on the foundations and principles of subjectivist or behaviouristic Bayesian analysis. ... the book is a pleasure to read. And highly recommended for teaching as it can be used at many different levels. ... A must-read for sure!  
—Christian Robert,  
CHANCE It's a lovely book, one that I hope will be widely

adopted as a course textbook.  
—Michael Jordan,  
University of California, Berkeley, USA  
Like the prize-winning first edition, Principles of Uncertainty, Second Edition is an accessible, comprehensive text on the theory of Bayesian Statistics written in an appealing, inviting style, and packed with interesting examples. It presents an introduction to the subjective Bayesian

approach which has played a pivotal role in game theory, economics, and the recent boom in Markov Chain Monte Carlo methods. This new edition has been updated throughout and features new material on Nonparametric Bayesian Methods, the Dirichlet distribution, a simple proof of the central limit theorem, and new problems. Key Features: First edition won the 2011 DeGroot Prize

Well-written introduction to theory of Bayesian statistics Each of the introductory chapters begins by introducing one new concept or assumption Uses "just-in-time mathematics"—the introduction to mathematical ideas just before they are applied

**Data Integration Blueprint and Modeling**

Springer Science & Business Media  
Get up and

running with the Pentaho Data Integration tool using this hands-on, easy-to-read guide About This Book Manipulate your data by exploring, transforming, validating, and integrating it using Pentaho Data Integration 8 CE A comprehensive guide exploring the features of Pentaho Data Integration 8 CE Connect to any database engine, explore the databases, and perform

all kind of operations on relational databases

Who This Book Is For This book is a must-have for software developers, business intelligence analysts, IT students, or anyone involved or interested in developing ETL solutions. If you plan on using Pentaho Data Integration for doing any data manipulation task, this book will help you as well. This book is also a good starting point for data

warehouse designers, architects, or anyone who is responsible for data warehouse projects and needs to load data into them. What You Will Learn Explore the features and capabilities of Pentaho Data Integration 8 Community Edition Install and get started with PDI Learn the ins and outs of Spoon, the graphical designer tool Learn to get data from all kind of data sources, such as plain files, Excel

spreadsheets, databases, and XML files Use Pentaho Data Integration to perform CRUD (create, read, update, and delete) operations on relational data bases Populate a data mart with Pentaho Data Integration Use Pentaho Data Integration to organize files and folders, run daily processes, deal with errors, and more In Detail Pentaho Data Integration (PDI) is an intuitive and graphical

environment packed with drag-and-drop design and powerful Extract-Transform-Load (ETL) capabilities. This book shows and explains the new interactive features of Spoon, the revamped look and feel, and the newest features of the tool including transformations and jobs Executors and the invaluable Metadata Injection capability. We begin with the installation of PDI software

and then move on to cover all the key PDI concepts. Each of the chapter introduces new features, enabling you to gradually get practicing with the tool. First, you will learn to do all kind of data manipulation and work with simple plain files. Then, the book teaches you how you can work with relational databases inside PDI. Moreover, you will be given a primer on data warehouse

concepts and you will learn how to load data in a data warehouse. During the course of this book, you will be familiarized with its intuitive, graphical and drag-and-drop design environment. By the end of this book, you will learn everything you need to know in order to meet your data manipulation requirements. Besides, your will be given best practices and advises for designing and deploying your projects.

Style and approach Step by step guide filled with practical, real world scenarios and examples.

**Pentaho Data Integration Beginner's Guide** Packt Publishing Ltd . The goal of this book is to present a simple yet thorough resource that describes the challenges of business data integration and the solutions to these challenges such as schema integration, illustrated

through an Operational Data Store (ODS) case study.

**Data Warehouse Design: Modern Principles and Methodologies**

McGraw Hill Professional  
This book explains and explores the principal techniques of Data Mining, the automatic extraction of implicit and potentially useful information from data, which is increasingly used in commercial,

scientific and other application areas. It focuses on classification, association rule mining and clustering. Each topic is clearly explained, with a focus on algorithms not mathematical formalism, and is illustrated by detailed worked examples. The book is written for readers without a strong background in mathematics or statistics and any formulae used

are explained in detail. It can be used as a textbook to support courses at undergraduate or postgraduate levels in a wide range of subjects including Computer Science, Business Studies, Marketing, Artificial Intelligence, Bioinformatics and Forensic Science. As an aid to self study, this book aims to help general readers develop the necessary understanding of what is

inside the 'black box' so they can use commercial data mining packages discriminately, as well as enabling advanced readers or academic researchers to understand or contribute to future technical advances in the field. Each chapter has practical exercises to enable readers to check their progress. A full glossary of technical terms used is included. This expanded third edition

includes detailed descriptions of algorithms for classifying streaming data, both stationary data, where the underlying model is fixed, and data that is time-dependent, where the underlying model changes from time to time - a phenomenon known as concept drift.

**Pentaho  
Data  
Integration  
Cookbook**

Cambridge  
University  
Press  
Pentaho Data  
Integration

Cookbook  
Second  
Edition is  
written in a  
cookbook  
format,  
presenting  
examples in  
the style of  
recipes. This  
allows you to  
go directly to  
your topic of  
interest, or  
follow topics  
throughout a  
chapter to  
gain a  
thorough in-  
depth  
knowledge. Pe  
ntaho Data  
Integration  
Cookbook  
Second  
Edition is  
designed for  
developers  
who are  
familiar with  
the basics of  
Kettle but who

wish to move up to the next level. It is also aimed at advanced

users that want to learn how to use the new features

of PDI as well as and best practices for working with Kettle.