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"This book provides chapters describing in more detail the structure of information systems pertaining to enabling technologies, aspects of their implementations, IT/IS governing, risk management, disaster management, interrelated manufacturing and supply chain strategies, and new IT paradigms"--Provided by publisher.

Continuous improvements in digitized practices have created opportunities for businesses to

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develop more streamlined processes. This not only leads to higher success in day-to-day production, but it increases the overall success of businesses. Enterprise Information Systems and the Digitalization of Business Functions is a key resource on the latest advances and research for a digital agenda in the business world. Highlighting multidisciplinary studies on data modeling, information systems, and customer relationship management, this publication is an ideal reference source for professionals, researchers, managers, consultants, and university students interested in

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emerging developments for business process management. "This book provides evidence-based insights into the management and contribution of IT in organizations, to offer practical advice & solutions, models and tools that are instrumental in getting business value from IT"--Provided by publisher.

Data analysis is an important part of modern business administration, as efficient compilation of information allows managers and business leaders to make the best decisions for the financial solvency of their organizations. Understanding the use of

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analytics, reporting, and data mining in everyday business environments is imperative to the success of modern businesses. Business Intelligence: Concepts, Methodologies, Tools, and Applications presents a comprehensive examination of business data analytics along with case studies and practical applications for businesses in a variety of fields and corporate arenas. Focusing on topics and issues such as critical success factors, technology adaptation, agile development approaches, fuzzy logic tools, and best practices in business process management, this multivolume

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reference is of particular use to business analysts, investors, corporate managers, and entrepreneurs in a variety of prominent industries.

Business Intelligence Strategy and Big Data Analytics is written for business leaders, managers, and analysts - people who are involved with advancing the use of BI at their companies or who need to better understand what BI is and how it can be used to improve profitability. It is written from a general management perspective, and it draws on observations at 12 companies whose annual revenues range between \$500 million and \$20 billion. Over the past 15 years,

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my company has formulated vendor-neutral business-focused BI strategies and program execution plans in collaboration with manufacturers, distributors, retailers, logistics companies, insurers, investment companies, credit unions, and utilities, among others. It is through these experiences that we have validated business-driven BI strategy formulation methods and identified common enterprise BI program execution challenges. In recent years, terms like “big data” and “big data analytics” have been introduced into the business and technical lexicon. Upon close examination, the newer

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terminology is about the same thing that BI has always been about: analyzing the vast amounts of data that companies generate and/or purchase in the course of business as a means of improving profitability and competitiveness. Accordingly, we will use the terms BI and business intelligence throughout the book, and we will discuss the newer concepts like big data as appropriate. More broadly, the goal of this book is to share methods and observations that will help companies achieve BI success and thereby increase revenues, reduce costs, or both. Provides ideas for improving the business performance of one's

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***company or business functions
Emphasizes proven, practical,
step-by-step methods that
readers can readily apply in their
companies Includes exercises
and case studies with road-
tested advice about formulating
BI strategies and program plans
Data Governance***

***A Step-by-Step Guide to Making
Information Governance Work
Implementing Business
Intelligence with SQL Server
2019***

***Enterprise Governance of
Information Technology
Managing Data and Leveraging
Profits in Today's Complex
Business Environment
Always-On Enterprise***

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Information Systems for Business Continuity: Technologies for Reliable and Scalable Operations Performing Information Governance

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

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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. Big Data Imperatives describes the complementary nature of traditional data warehouses and big-data analytics platforms and how they feed each other. 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

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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.

Making Enterprise Information Management

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(EIM) Work for Business: A Guide to Understanding Information as an Asset provides a comprehensive discussion of EIM. It endeavors to explain information asset management and place it into a pragmatic, focused, and relevant light. The book is organized into two parts. Part 1 provides the material required to sell, understand, and validate the EIM program. It explains concepts such as treating Information, Data, and Content as true assets; information management maturity; and

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how EIM affects organizations. It also reviews the basic process that builds and maintains an EIM program, including two case studies that provide a birds-eye view of the products of the EIM program. Part 2 deals with the methods and artifacts necessary to maintain EIM and have the business manage information. Along with overviews of Information Asset concepts and the EIM process, it discusses how to initiate an EIM program and the necessary building blocks to manage the changes to

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managed data and content. Organizes information modularly, so you can delve directly into the topics that you need to understand Based in reality with practical case studies and a focus on getting the job done, even when confronted with tight budgets, resistant stakeholders, and security and compliance issues Includes applicatory templates, examples, and advice for executing every step of an EIM program Global Business Intelligence refers to an organization's ability to

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gather, process and analyze pertinent international information in order to make optimal business decisions in a timely manner. With a challenging economic and geopolitical environment, companies and executives need to be adept at information gathering in order to manage emerging challenges and gain competitive advantages. This book Global Business Intelligence assembles a cast of international experts and thought leaders and explores the implications of business

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intelligence on contemporary management.

Global Business

Intelligence will be a key resource for researchers, academics, students and policy makers alike in the fields of International Business & Management, Business Strategy, and Geopolitics as well as related disciplines like Political Science, Economics, and Geography.

A one-stop guide to help database developers build Business Intelligence applications from scratch!

About This Video

Understand basic Data

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Warehousing, OLTP, and OLAP. Use SSDT (SQL Server Data Tools) to develop SSIS packages and design reports. Learn about SSIS, SSAS, and SSRS architectures and their components. In Detail In the course, you will cover topics including Business Intelligence fundamentals, data warehousing and ETL, data governance, data visualization, Power BI, data mining, SSAS, SSIS, and Azure Data Analysis Services, with each covering a section of the Microsoft BI with SQL Server 2017. You will get

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more hands-on with reporting and making sense out of your business intelligence data with SQL Server. The course will not only help you implement BI Data warehousing solutions, but will also enable you to provide data solutions with SQL Server Integration Services covering Enterprise Suite for data governance, improving data quality, and master data management. By the end of this course, you will be confident enough to create your own Microsoft BI

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solutions with components such as SSIS for ETL, SQL Server for Data Warehouse, SSAS for OLAP modeling and data mining, and SSRS for reporting. The course will not only help you in implementing BI; Data warehousing solutions, but will also enable you to provide data solutions with SQL Server Integration Services covering Enterprise suite for data governance, improving data quality, and master data management. By the end of this course, you will be able confident in creating

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your own Microsoft BI solutions with components such as SSIS for ETL, SQL Server for Data Warehouse, SSAS for OLAP modeling and data mining, and SSRS for reporting.

Leverage the integration of SQL Server and Office for more effective BI. Applied Microsoft Business Intelligence shows you how to leverage the complete set of Microsoft tools—including Microsoft Office and SQL Server—to better analyze business data. This book provides best practices for building complete

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BI solutions using the full Microsoft toolset. You will learn how to effectively use SQL Server Analysis and Reporting Services, along with Excel, SharePoint, and other tools to provide effective and cohesive solutions for the enterprise. Coverage includes BI architecture, data queries, semantic models, multidimensional modeling, data analysis and visualization, performance monitoring, data mining, and more, to help you learn to perform

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practical business analysis and reporting. Written by an author team that includes a key member of the BI product team at Microsoft, this useful reference provides expert instruction for more effective use of the Microsoft BI toolset. Use Microsoft BI suite cohesively for more effective enterprise solutions. Search, analyze, and visualize data more efficiently and completely. Develop flexible and scalable tabular and multidimensional models.

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Monitor performance, build a BI portal, and deploy and manage the BI Solution

The Data Governance

Imperative

Research and Applications

in Service-oriented

Ecosystem (Proceedings of

the 5th International IFIP

Working Conference IWIE

2013)

Enterprise Information

Management in Practice

Enterprise Data at Huawei

A Practical Guide for

Achieving BI Excellence

Business Intelligence:

Concepts, Methodologies,

Tools, and Applications

Non-Invasive Data

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Governance

Gaining the competitive advantage
Geared toward IT management and business executives seeking to excel in business intelligence initiatives, this practical guide explores creating business alignment strategies that help prioritize business requirements, build organizational and cultural strategies, increase IT efficiency, and promote user adoption. Business intelligence, together with business analytics and performance management, eliminates information overload by organizing the massive amounts of information available in the modern enterprise. Addressing the

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challenges of business intelligence operations, this resource supports the goal of better business decision making and identifying unrealized opportunities. Each chapter includes a checklist of recommended approaches and a strategy overview template.

"This book provides the latest ideas and research on advancing the understanding and implementation of business intelligence within organizations"--Provided by publisher.

Data-governance programs focus on authority and accountability for the management of data as a valued organizational asset. Data Governance should not be about

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command-and-control, yet at times could become invasive or threatening to the work, people and culture of an organization. Non-Invasive Data Governance™ focuses on formalizing existing accountability for the management of data and improving formal communications, protection, and quality efforts through effective stewarding of data resources. Non-Invasive Data Governance will provide you with a complete set of tools to help you deliver a successful data governance program. Learn how:

- Steward responsibilities can be identified and recognized, formalized, and engaged according to their existing

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responsibility rather than being assigned or handed to people as more work. • Governance of information can be applied to existing policies, standard operating procedures, practices, and methodologies, rather than being introduced or emphasized as new processes or methods. • Governance of information can support all data integration, risk management, business intelligence and master data management activities rather than imposing inconsistent rigor to these initiatives. • A practical and non-threatening approach can be applied to governing information and promoting stewardship of data

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as a cross-organization asset. • Best practices and key concepts of this non-threatening approach can be communicated effectively to leverage strengths and address opportunities to improve. Solid business intelligence guidance uniquely designed for healthcare organizations

Increasing regulatory pressures on healthcare organizations have created a national conversation on data, reporting and analytics in healthcare. Behind the scenes, business intelligence (BI) and data warehousing (DW) capabilities are key drivers that empower these functions. Healthcare Business Intelligence is designed as a

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guidebook for healthcare organizations dipping their toes into the areas of business intelligence and data warehousing. This volume is essential in how a BI capability can ease the increasing regulatory reporting pressures on all healthcare organizations. Explores the five tenets of healthcare business intelligence Offers tips for creating a BI team Identifies what healthcare organizations should focus on first Shows you how to gain support for your BI program Provides tools and techniques that will jump start your BI Program Explains how to market and maintain your BI Program The risk

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associated with doing BI/DW wrong is high, and failures are well documented. Healthcare Business Intelligence helps you get it right, with expert guidance on getting your BI program started and successfully keep it going.

"This book offers a deep look into the latest research, tools, implementations, frameworks, architectures, and case studies within the field of Business Intelligence

Management"--Provided by publisher.

Business Intelligence Strategy
Enterprise IT Governance,
Business Value and Performance
Measurement

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The New Era of Enterprise Business Intelligence

Applying Business Intelligence Initiatives in Healthcare and Organizational Settings

Making Enterprise Information Management (EIM) Work for Business

Organizational Applications of Business Intelligence

Management: Emerging Trends

Healthcare Business Intelligence

A Complete Blueprint for

Maximizing the Value of

Business Intelligence in the

Enterprise The typical

enterprise recognizes the

immense potential of

business intelligence (BI) and

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its impact upon many facets within the organization—but it's not easy to transform BI's potential into real business value. In The New Era of Enterprise Business Intelligence, top BI expert Mike Biere presents a complete blueprint for creating winning BI strategies and infrastructure, and systematically maximizing the value of information throughout the enterprise. This product-independent guide brings together start-to-finish guidance and practical checklists for every senior IT executive, planner, strategist,

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implementer, and the actual business users themselves. Drawing on thousands of hours working with enterprise customers, Biere helps decision-makers choose from today's unprecedented spectrum of options, including the latest BI platform suites and appliances. He offers practical, "in-the-trenches" insights on a wide spectrum of planning and implementation issues, from segmenting and supporting users to working with unstructured data. Coverage includes Understanding the scope of today's BI solutions

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and how they fit into existing infrastructure
Assessing new options such as SaaS and cloud-based technologies
Avoiding technology biases and other “project killers”
Developing effective RFIs/RFPs and proofs of concept
Setting up competency centers and planning for skills development
Crafting a better experience for all your business users
Supporting the requirements of senior executives, including performance management
Cost-justifying BI solutions and measuring success

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Working with enterprise content management, text analytics, and search Planning and constructing portals, mashups, and other user interfaces Previewing the future of BI

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

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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 complex business models, as well as the advent of big data technology, it is not surprising that making sense of the large

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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

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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 comprehensive view of the building blocks 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

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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.

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

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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

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decision-makers. After reading this book, you 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

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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 as well as at small to medium-sized businesses Describes best practices and pragmatic approaches so readers can put them into action. Companion website includes templates and examples,

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further discussion of key topics, instructor materials, and references to trusted industry sources.

This book analyses the role of Enterprise Resource Planning (ERP) and Business Intelligence (BI) systems in improving information quality through an empirical analysis carried out in Italy. The study begins with a detailed examination of ERP features that highlights the advantages and disadvantages of ERP adoption. Critical success factors for ERP implementation and post-implementation are then

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discussed, along with the capabilities of ERP in driving the alignment between management accounting and financial accounting information. The study goes on to illustrate the features of BI systems and to summarize companies' needs for BI. Critical success factors for BI implementation are then presented, along with the BI maturity model and lifecycle. The focus of the research entails a detailed empirical analysis in the Italian setting designed to investigate the role played by ERP and BI systems in reducing

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information

overload/underload and improving information quality by influencing the features of information flow. The practical and theoretical implications of the study are discussed and future avenues of research are suggested. This book will be of value for all those who have an interest in the capacities of ERP and BI systems to enhance business information quality.

Executives in Europe have significantly expanded their role in operations – in parallel to their strategic leadership.

At the same time, they need to

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make decisions faster than in the past. In these demanding times, a redesigned Business Intelligence (BI) should support managers in their new roles. This book summarizes current avenues of development helping managers to perform their jobs more productively by using 'BI for managers' as their central, hands-on, day-to-day source of information – even when they are mobile. How to Design, Deploy, and Sustain an Effective Data Governance Program Data Science, Intelligent Information Systems and

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Smart Computing Current Avenues of Development Enterprise Business Intelligence and Data Warehousing From Data Integration to Analytics Business Intelligence Demystified The Path of Least Resistance and Greatest Success

Featuring numerous case examples from companies around the world, this second edition integrates theoretical advances and empirical data with practical applications,

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including in-depth discussion on the COBIT 5 framework which can be used to build, measure and audit enterprise governance of IT approaches. At the forefront of the field, the authors of this volume draw from years of research and advising corporate clients to present a comprehensive resource on enterprise governance of IT (EGIT). Information technology (IT) has become a crucial enabler in the support, sustainability and growth of enterprises. Given this

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pervasive role of IT, a specific focus on EGIT has arisen over the last two decades, as an integral part of corporate governance. Going well beyond the implementation of a superior IT infrastructure, enterprise governance of IT is about defining and embedding processes and structures throughout the organization that enable boards and business and IT people to execute their responsibilities in support of business/IT alignment and value creation from their IT-

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enabled investments. Featuring a variety of elements, including executive summaries and sidebars, extensive references and questions and activities (with additional materials available on-line), this book will be an essential resource for professionals, researchers and students alike. Data analysis is an important part of modern business administration, as efficient compilation of information allows managers and business leaders to make the best

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decisions for the financial solvency of their organizations.

Understanding the use of analytics, reporting, and data mining in everyday business environments is imperative to the success of modern businesses.

Applying Business Intelligence Initiatives in Healthcare and Organizational Settings incorporates emerging concepts, methods, models, and relevant applications of business intelligence systems within problem contexts of healthcare and other organizational

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boundaries. Featuring coverage on a broad range of topics such as rise of embedded analytics, competitive advantage, and strategic capability, this book is ideally designed for business analysts, investors, corporate managers, and entrepreneurs seeking to advance their understanding and practice of business intelligence. This book contains practical steps business users can take to implement data management in a number of ways, including data governance,

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data architecture, master data management, business intelligence, and others. It defines data strategy, and covers chapters that illustrate how to align a data strategy with the business strategy, a discussion on valuing data as an asset, the evolution of data management, and who should oversee a data strategy. This provides the user with a good understanding of what a data strategy is and its limits. Critical to a data strategy is the incorporation of one or more data management

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domains. Chapters on key data management domains—data governance, data architecture, master data management and analytics, offer the user a practical approach to data management execution within a data strategy. The intent is to enable the user to identify how execution on one or more data management domains can help solve business issues. This book is intended for business users who work with data, who need to manage one or more aspects of the organization's data, and

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who want to foster an integrated approach for how enterprise data is managed. This book is also an excellent reference for students studying computer science and business management or simply for someone who has been tasked with starting or improving existing data management.

In a fast changing global economy governed by Enterprise Services and the Future Internet, enterprises and virtual factories will self-organize in distributed, interoperable, innovation

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Ecosystems where the issues of Enterprise Interoperability need to be solved in a multi-view of information, services and processes throughout Enterprise Networks. The book constitutes the proceedings of five workshops co-located with the Fifth IFIP Working Conference IWEI 2013. It contains the presented peer reviewed papers and summaries of the workshop discussions. Complementing the IWEI Conference program, the workshops aimed at exploiting new issues, challenges and

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solutions for Enterprise Interoperability and Manufacturing Eco Systems. The scope of the workshops spanned over a range of interoperability issues in Service Science and innovation, Model Driven Service Engineering Architectures, Service Modelling Languages, reference ontology for manufacturing , Case studies and tools particularly for SMEs, Business - IT alignment and related Standardization. Contents
1 - Model Driven Services Engineering Architecture

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(MDSEA): A Result of MSEE Project An Architecture for Service Modelling in Servitization Context: MDSEA, Y. Ducq. A Set of Templates for MDSEA, D. Chen. 2 - Interoperability to Support Business-IT Alignment Report Workshop 2, I.-S. Fan, V. Taratoukhine, M. Matzner. Interoperability as a Catalyst for Business Innovation, J.H.P. Eloff, M.M. Eloff, M.T. Dlamini, E. Ngassam, D. Ras. Process-Oriented Business Modeling - An Application in the Printing Industry, A. Malsbender, K. Ortbach,

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R. Plattfaut, M. Voigt, B. Niehaves. A Comparative Study of Modelling Methodologies Using a Concept of Process Consistency, E. Babkin, E. Potapova, Y. Zelenova. Maintenance Support throughout the Life-Cycle of High Value Manufacturing Products. Interoperability Issues, A. Fedotova, V. Taratoukhine, Y. Kupriyanov. Using Enterprise Architecture to Align Business Intelligence Initiatives, I.-S. Fan, S. Warner. Towards Enterprise

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Architecture Using
Solution Architecture
Models, V. Agievich, R.
Gimranov, V. Taratoukhine,
J. Becker. 3 -
Standardisation for
Interoperability in the
Service-Oriented
Enterprise Report Workshop
3, M. Zelm, D. Chen.
Standardisation in
Manufacturing Service
Engineering, M. Zelm, G.
Doumeingts. Service
Modelling Language and
Potentials for a New
Standard, D. Chen. An
Approach to Standardise a
Service Life Cycle
Management, M. Freitag, D.

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Kremer, M. Hirsch, M.
Zelm. Open Business Model,
Process and Service
Innovation with VDML and
ServiceML, A. J. Berre, H.
De Man, Y. Lew, B.
Elvesæter, B.M. Ursin-
Holm. Reference Ontologies
for Manufacturing, R.
Young, N. Hastilow, M.
Imran, N. Chungoora, Z.
Usman, A.-F. Cutting-
Decelle. Standardisation
Tools for Negotiating
Interoperability
Solutions, T. Santos, C.
Coutinho, A. Cretan, M.
Beca, R. Jardim-Goncalves.
4 - Case Studies on
Enterprise

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Interoperability: How IT Managers Profit from EI Research Report Workshop 4, S. Kassel. Experiences of Transferring Approaches of Interoperability into SMEs, F. Gruner, S. Kassel. 5 - Selected New Applications of Enterprise Interoperability . 179 Report Workshop 5, L. Ferreira Pires, P. Johnson. Service-Oriented Enterprise Interoperability in Logistics, W. Hofman. An Ontological Approach to Logistics, L. Daniele, L. Ferreira Pires. Social Vision of Collaboration of

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Organizations on a Cloud Platform, A. Montarnal, W. Mu, F. Bénaben, A.-M. Barthe-Delanoë, J. Lamothe. Semantic Standards Quality Measured for Achieving Enterprise Interoperability: The Case of the SETU Standard for Flexible Staffing, E. Folmer, H. Wu. Re Do your business intelligence (BI) projects take too long to deliver? Is the value of the deliverables less than satisfactory? Do these projects propagate poor data management practices? If you screamed "yes" to

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any of these questions, read this book to master a proven approach to building your enterprise data warehouse and BI initiatives. Extreme Scoping, based on the Business Intelligence Roadmap, will show you how to build analytics applications rapidly yet not sacrifice data management and enterprise architecture. In addition, all of the roles required to deliver all seven steps of this agile methodology are explained along with many real-world examples. From Wayne Eckerson's

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Foreword I've read many books about data warehousing and business intelligence (BI). This book by Larissa Moss is one of the best. I should not be surprised. Larissa has spent years refining the craft of designing, building, and delivering BI applications. Over the years, she has developed a keen insight about what works and doesn't work in BI. This book brings to light the wealth of that development experience. Best of all, this is not some dry text that laboriously steps readers

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through a technical methodology. Larissa expresses her ideas in a clear, concise, and persuasive manner. I highlighted so many beautifully written and insightful paragraphs in her manuscript that it became comical. I desperately wanted the final, published book rather than the manuscript so I could dog-ear it to death and place it front-and-center in my office bookshelf! From David Well's Foreword Extreme Scoping is rich with advice and guidance for

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virtually every aspect of BI projects from planning and requirements to deployment and from back-end data management to front-end information and analytics services.

Larissa is both a pragmatist and an independent thinker. Those qualities come through in the style of this book.

Extreme Scoping is a well-written book that is easy to absorb. It is not full of surprises. It is filled with a lot of common sense and lessons learned through experience.

Emerging Trends in

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Intelligent Computing and Informatics

An Agile Approach to Enterprise Data

Warehousing and Business Intelligence

Using Analytics to Achieve a Global Competitive Advantage

Artificial Intelligence and Business Intelligence

A General Management Perspective

AI Meets BI

With the emergence of Artificial Intelligence (AI) in the business world, a new era of Business Intelligence (BI) has been ushered in to create real-world business solutions using

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analytics. BI developers and practitioners now have tools and technologies to create systems and solutions to guide effective decision making.

Decisions can be made on the basis of more reliable and accurate information and intelligence, which can lead to valuable, actionable insights for business. Previously, BI professionals were stymied by bad or incomplete data, poorly architected solutions, or even just outright incapable systems or resources. With the advent of AI, BI has new possibilities for effectiveness. This is a long-awaited phase for practitioners and developers and, moreover,

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for executives and leaders relying on knowledgeable and intelligent decision making for their organizations. Beginning with an outline of the traditional methods for implementing BI in the enterprise and how BI has evolved into using self-service analytics, data discovery, and most recently AI, AI Meets BI first lays out the three typical architectures of the first, second, and third generations of BI. It then takes an in-depth look at various types of analytics and highlights how each of these can be implemented using AI-enabled algorithms and deep learning

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models. The crux of the book is four industry use cases. They describe how an enterprise can access, assess, and perform analytics on data by way of discovering data, defining key metrics that enable the same, defining governance rules, and activating metadata for AI/ML recommendations. Explaining the implementation specifics of each of these four use cases by way of using various AI-enabled machine learning and deep learning algorithms, this book provides complete code for each of the implementations, along with the output of the code, supplemented by visuals that

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aid in BI-enabled decision making. Concluding with a brief discussion of the cognitive computing aspects of AI, the book looks at future trends, including augmented analytics, automated and autonomous BI, and security and governance of AI-powered BI.

Nearly every large corporation and governmental agency is taking a fresh look at their current enterprise-scale business intelligence (BI) and data warehousing implementations at the dawn of the "Big Data Era"...and most see a critical need to revitalize their current capabilities. Whether they find

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the frustrating and business-impeding continuation of a long-standing "silos of data" problem, or an over-reliance on static production reports at the expense of predictive analytics and other true business intelligence capabilities, or a lack of progress in achieving the long-sought-after enterprise-wide "single version of the truth" - or all of the above - IT Directors, strategists, and architects find that they need to go back to the drawing board and produce a brand new BI/data warehousing roadmap to help move their enterprises from their current state to one

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where the promises of emerging technologies and a generation's worth of best practices can finally deliver high-impact, architecturally evolvable enterprise-scale business intelligence and data warehousing. Author Alan Simon, whose BI and data warehousing experience dates back to the late 1970s and who has personally delivered or led more than thirty enterprise-wide BI/data warehousing roadmap engagements since the mid-1990s, details a comprehensive step-by-step approach to building a best practices-driven, multi-year roadmap in the quest for

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architecturally evolvable BI and data warehousing at the enterprise scale. Simon addresses the triad of technology, work processes, and organizational/human factors considerations in a manner that blends the visionary and the pragmatic. Takes a fresh look at true enterprise-scale BI/DW in the "Dawn of the Big Data Era" Details a checklist-based approach to surveying one's current state and identifying which components are enterprise-ready and which ones are impeding the key objectives of enterprise-scale BI/DW Provides an approach

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for how to analyze and test-bed emerging technologies and architectures and then figure out how to include the relevant ones in the roadmaps that will be developed Presents a tried-and-true methodology for building a phased, incremental, and iterative enterprise BI/DW roadmap that is closely aligned with an organization's business imperatives, organizational culture, and other considerations

Business Metadata: Capturing Enterprise Knowledge is the first book that helps businesses capture corporate (human) knowledge and unstructured data, and offer solutions for

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codifying it for use in IT and management. Written by Bill Inmon, one of the fathers of the data warehouse and well-known author, the book is filled with war stories, examples, and cases from current projects. It includes a complete metadata acquisition methodology and project plan to guide readers every step of the way, and sample unstructured metadata for use in self-testing and developing skills. This book is recommended for IT professionals, including those in consulting, working on systems that will deliver better knowledge management

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capability. This includes people in these positions: data architects, data analysts, SOA architects, metadata analysts, repository (metadata data warehouse) managers as well as vendors that have a metadata component as part of their systems or tools. First book that helps businesses capture corporate (human) knowledge and unstructured data, and offer solutions for codifying it for use in IT and management Written by Bill Inmon, one of the fathers of the data warehouse and well-known author, and filled with war stories, examples, and cases from current projects

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Very practical, includes a complete metadata acquisition methodology and project plan to guide readers every step of the way Includes sample unstructured metadata for use in self-testing and developing skills

The Profit Impact of Business Intelligence presents an A-to-Z approach for getting the most business intelligence (BI) from a company's data assets or data warehouse. BI is not just a technology or methodology, it is a powerful new management approach that - when done right - can deliver knowledge, efficiency, better decisions, and profit to almost any

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organization that uses it. When BI first came on the scene, it promised a lot but often failed to deliver. The missing element was the business-centric focus explained in this book. It shows how you can achieve the promise of BI by connecting it to your organization's strategic goals, culture, and strengths while correcting your BI weaknesses. It provides a practical, process-oriented guide to achieve the full promise of BI; shows how world-class companies used BI to become leaders in their industries; helps senior business and IT executives understand the strategic

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impact of BI and how they can ensure a strong payoff from their BI investments; and identifies the most common mistakes organizations make in implementing BI. The book also includes a helpful glossary of BI terms; a BI readiness assessment for your organization; and Web links and extensive references for more information. A practical, process-oriented book that will help organizations realize the promise of BI Written by Nancy and Steve Williams, veteran consultants and instructors with hands-on, "in the trenches" experience in government and corporate

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business intelligence applications Will help senior business and IT executives understand the strategic impact of BI and how they can help ensure a strong payoff on BI investments

Clear your doubts about Business Intelligence and start your new journey

KEY FEATURES

- *Includes successful methods and innovative ideas to achieve success with BI.*
- *Vendor-neutral, unbiased, and based on experience.*
- *Highlights practical challenges in BI journeys.*
- *Covers financial aspects along with technical aspects.*
- *Showcases multiple*

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BI organization models and the structure of BI teams.

DESCRIPTION The book demystifies misconceptions and misinformation about BI. It provides clarity to almost everything related to BI in a simplified and unbiased way. It covers topics right from the definition of BI, terms used in the BI definition, coinage of BI, details of the different main uses of BI, processes that support the main uses, side benefits, and the level of importance of BI, various types of BI based on various parameters, main phases in the BI journey and the challenges faced in each of the

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phases in the BI journey. It clarifies myths about self-service BI and real-time BI. The book covers the structure of a typical internal BI team, BI organizational models, and the main roles in BI. It also clarifies the doubts around roles in BI. It explores the different components that add to the cost of BI and explains how to calculate the total cost of the ownership of BI and ROI for BI. It covers several ideas, including unconventional ideas to achieve BI success and also learn about IBI. It explains the different types of BI architectures, commonly used technologies, tools, and

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concepts in BI and provides clarity about the boundary of BI w.r.t technologies, tools, and concepts. The book helps you lay a very strong foundation and provides the right perspective about BI. It enables you to start or restart your journey with BI. WHAT YOU WILL LEARN ● Builds a strong conceptual foundation in BI. ● Gives the right perspective and clarity on BI uses, challenges, and architectures. ● Enables you to make the right decisions on the BI structure, organization model, and budget. ● Explains which type of BI solution is required for your business. ● Applies

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successful BI ideas. WHO THIS BOOK IS FOR This book is a must-read for business managers, BI aspirants, CxOs, and all those who want to drive the business value with data-driven insights. TABLE OF CONTENTS

- 1. What is Business Intelligence?*
- 2. Why do Businesses need BI?*
- 3. Types of Business Intelligence*
- 4. Challenges in Business Intelligence*
- 5. Roles in Business Intelligence*
- 6. Financials of Business Intelligence*
- 7. Ideas for Success with BI*
- 8. Introduction to IBI*
- 9. BI Architectures*
- 10. Demystify Tech, Tools, and Concepts in BI*

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Program Management Essentials

A Guide to Empowering Successful Data Reporting and Analytics

Business Intelligence Strategy and Big Data Analytics

Principles and Applications of Business Intelligence Research Healthcare Business

Intelligence, + Website

Enterprise 'Big Data' Warehouse, 'BI'

Implementations and Analytics

Enterprise Information Systems and the Digitalization of Business Functions

Data Governance How to Design, Deploy, and Sustain an Effective Data

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Governance Program Academic Press

This practical book covers both strategies and tactics around managing a data governance initiative to help make the most of your data.

Data governance is broken. It's time we fix it. Why is data governance so ineffective? The truth is data governance programs aren't designed for the way we run our data teams, they aren't even designed for a modern organization at all. They were designed when reports still came through inter-office mail.

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The flow of data into, within, and out of today's organizations is a tsunami breaking through rigid data governance methods. Yet our programs still rely on that command and control approach. Have you ever tried to control a tsunami? Every organization that uses data knows that they need a data governance program. Data literacy efforts and legislation like GDPR have become the bellwethers for our governance functions. But we still sit in data governance meetings without enough people and

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too many questions to move things forward. There's no agility to the program because we imply a degree of frailty to the data that doesn't exist. We continue to insist on archaic methods that bring no value to our organizations. Achieving deep insights from data can't happen without good governance practices. All indicators point to the need to create a resilient and responsive data governance function. Where we go from here, and how we achieve success in data governance requires a

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radically different way. The hard truth: it's time to challenge everything we know about data governance. Laura Madsen shows you how to redefine governance for the modern age. With a casual, witty style Madsen taps on her decades of experience, shares interviews with other best-in-field experts and grounds her perspective in research. Witness where it all fell apart, challenge long-held beliefs, and commit to a fundamental shift—that governance is not about stopping or preventing

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usage but about supporting the usage of data. Be able to bring back trust and value to our data governance functions, and learn the:

- People-driven approach to governance
- Processes that support the tsunami of data
- Cutting edge technology that's enabling data governance

This book systematically introduces the data governance and digital transformation at Huawei, from the perspectives of technology, process, management, and so on. Huawei is a large global enterprise engaging in

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multiple types of business in over 170 countries and regions. Its differentiated operation is supported by an enterprise data foundation and corresponding data governance methods. With valuable experience, methodology, standards, solutions, and case studies on data governance and digital transformation, enterprise data at Huawei is ideal for readers to learn and apply, as well as to get an idea of the digital transformation journey at Huawei. This book is

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organized into four parts and ten chapters. Based on the understanding of “the cognitive world of machines,” the book proposes the prospects for the future of data governance, as well as the imaginations about AI-based governance, data sovereignty, and building a data ecosystem. Corporations and governmental agencies of all sizes are embracing a new generation of enterprise-scale business intelligence (BI) and data warehousing (DW), and very often appoint a single

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senior-level individual to serve as the Enterprise BI/DW Program Manager. This book is the essential guide to the incremental and iterative build-out of a successful enterprise-scale BI/DW program comprised of multiple underlying projects, and what the Enterprise Program Manager must successfully accomplish to orchestrate the many moving parts in the quest for true enterprise-scale business intelligence and data warehousing. Author Alan Simon has served as an enterprise business

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intelligence and data warehousing program management advisor to many of his clients, and spent an entire year with a single client as the adjunct consulting director for a \$10 million enterprise data warehousing (EDW) initiative. He brings a wealth of knowledge about best practices, risk management, organizational culture alignment, and other Critical Success Factors (CSFs) to the discipline of enterprise-scale business intelligence and data

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warehousing.

Self-Service Data

Analytics and Governance

for Managers

Business Metadata:

Capturing Enterprise

Knowledge

Modern Enterprise Business

Intelligence and Data

Management

An Empirical Analysis in

the Italian Setting

Disrupting Data Governance

Global Business

Intelligence

Understand and Clear All

Your Doubts and

Misconceptions About BI

(English Edition)

This book presents the proceedings

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of the 4th International Conference of Reliable Information and Communication Technology 2019 (IRICT 2019), which was held in Pulai Springs Resort, Johor, Malaysia, on September 22–23, 2019. Featuring 109 papers, the book covers hot topics such as artificial intelligence and soft computing, data science and big data analytics, internet of things (IoT), intelligent communication systems, advances in information security, advances in information systems and software engineering. Business Intelligence Strategy in the Big Data Analytics: A General Management Perspective explains how to deliver competitive advantages and substantial

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economic benefits by overcoming commonly-encountered barriers to success. It includes lessons learned from leading companies that provide practical ideas for how to use the many different forms of BI to meet key business objectives. Further, it clarifies how BI initiatives are really business initiatives that require business units to change how they use information and analysis to drive and improve business results, particularly profits. Business intelligence (BI) and business analytics are like a Swiss army knife-they can be used in many different ways to achieve many different business purposes. In working with leading companies in a wide range of industries to help

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them formulate and execute BI strategies and program plans, the author has seen firsthand that these successful companies struggle in two key areas: BI Strategy, which is understanding how they can leverage BI in core business functions such as marketing, sales, customer service, operations, distribution, supplier management, cost improvement, and financial management; and BI Program Execution, which is effectively aligning and executing the diverse workstreams that are critical for achieving a return on investment (ROI), including change management, business process and BI integration, and BI and data warehousing development.

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Provides ideas for improving the business performance of one's company or business functions

Emphasizes proven, practical, step-by-step methods that readers can readily apply in their companies

Includes exercises and case studies with road-tested advice about formulating BI strategies and program plans

Using case studies and hands-on activities, this book discusses topics in information governance (IG): recognizing hidden development and operational implications of IG--and why it needs to be integrated in the broader organization; integrating IG activities with transactional processing, BI, MDM, and other

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enterprise information management functions; the information governance organization: defining roles, launching projects, and integrating with ongoing operations; performing IG in transactional projects, including those using agile methods and COTS products; bringing stronger information governance to MDM: strategy, architecture, development, and beyond; governing information throughout the BI or big data project lifecycle; performing ongoing IG and data stewardship operational processes; auditing and enforcing data quality management in the context of enterprise information management; maintaining and evolving metadata

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management for maximum business value. -- \$c Edited summary from book.

Managing data continues to grow as a necessity for modern organizations. There are seemingly infinite opportunities for organic growth, reduction of costs, and creation of new products and services. It has become apparent that none of these opportunities can happen smoothly without data governance. The cost of exponential data growth and privacy / security concerns are becoming burdensome. Organizations will encounter unexpected consequences in new sources of risk. The solution to these challenges is also data

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governance; ensuring balance between risk and opportunity. *Data Governance, Second Edition*, is for any executive, manager or data professional who needs to understand or implement a data governance program. It is required to ensure consistent, accurate and reliable data across their organization. This book offers an overview of why data governance is needed, how to design, initiate, and execute a program and how to keep the program sustainable. This valuable resource provides comprehensive guidance to beginning professionals, managers or analysts looking to improve their processes, and advanced students in Data Management and related

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courses. With the provided framework and case studies all professionals in the data governance field will gain key insights into launching successful and money-saving data governance program. Incorporates industry changes, lessons learned and new approaches Explores various ways in which data analysts and managers can ensure consistent, accurate and reliable data across their organizations Includes new case studies which detail real-world situations Explores all of the capabilities an organization must adopt to become data driven Provides guidance on various approaches to data governance, to determine whether an organization

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should be low profile, central controlled, agile, or traditional Provides guidance on using technology and separating vendor hype from sincere delivery of necessary capabilities Offers readers insights into how their organizations can improve the value of their data, through data quality, data strategy and data literacy Provides up to 75% brand-new content compared to the first edition

"This book will be constructed as a guidebook for healthcare organizations that are attempting BI/DW. It will address the primary functions of a business intelligence capability and how BI can ease the increasing regulatory reporting

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pressures on all healthcare organizations. Also included will be tables, checklists and a few forms. Tentative chapter contents: Chapter 1: What is Healthcare BI? Chapter 2: The Five Disciplines of Business Intelligence Chapter 3: The Importance of ETL Chapter 4: Starting with Data Governance Chapter 5: Creating a BI team Chapter 6: Data Modeling for Healthcare Chapter 7: Gaining Support for your BI program Chapter 8: Ensuring good User Adoption Chapter 9: Marketing Your BI Program Chapter 10: Maintaining Your BI Program"-- A Roadmap for IT Directors, Managers, and Architects Business Intelligence Guidebook

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Business Intelligence for New-Generation Managers

Technologies for Reliable and Scalable Operations

Achieving Alignment and Value, Featuring COBIT 5

Extreme Scoping

Methods and Practices of Enterprise Data Governance

Project governance, investment governance, and risk governance precepts are woven together in Self-Service Data Analytics and Governance for Managers, equipping managers to structure the inevitable chaos that

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can result as end-users take matters into their own hands Motivated by the promise of control and efficiency benefits, the widespread adoption of data analytics tools has created a new fast-moving environment of digital transformation in the finance, accounting, and operations world, where entire functions spend their days processing in spreadsheets. With the decentralization of application development as users perform their

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own analysis on data sets and automate spreadsheet processing without the involvement of IT, governance must be revisited to maintain process control in the new environment. In this book, emergent technologies that have given rise to data analytics and which form the evolving backdrop for digital transformation are introduced and explained, and prominent data analytics tools and capabilities will be demonstrated based on

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real world scenarios. The authors will provide a much-needed process discovery methodology describing how to survey the processing landscape to identify opportunities to deploy these capabilities. Perhaps most importantly, the authors will digest the mature existing data governance, IT governance, and model governance frameworks, but demonstrate that they do not comprehensively cover the full suite of data

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analytics builds, leaving a considerable governance gap. This book is meant to fill the gap and provide the reader with a fit-for-purpose and actionable governance framework to protect the value created by analytics deployment at scale. Project governance, investment governance, and risk governance precepts will be woven together to equip managers to structure the inevitable chaos that can result as end-users take matters into their own hands.

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A Guide to Understanding
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Information Quality
Modern Data Strategy
The Profit Impact of
Business Intelligence**