

Entity Information Life Cycle For Big Data Master Data Management And Information Integration

Entity Information Life Cycle for Big Data Master Data Management and Information Integration Morgan Kaufmann

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher. The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries. Challenges associated with the analysis, security, sharing, storage, and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data. The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields. Featuring coverage on a broad range of topics, such as architecture patterns, programing systems, and computational energy, this publication is geared towards professionals, researchers, and students seeking

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current research and application topics on the subject.

This book is intended for compliance professionals, IT professionals, and business stakeholders who are working on anti-money laundering (AML) or financial crime risk management information systems implementation. This book focuses on the AML information systems technical implementation, especially the implementation/project planning, and current state, future state, gap analysis, as well some technical solutions and practical approaches. Most topics discussed in this book are for banks in the United States and Canada, but the principles and frameworks mentioned in the book could also be utilized in AML information systems implementations for insurance companies, asset/investment management firms, and securities dealers/brokers in North America or other jurisdictions even though different type financial institutions have different AML regulatory requirements in different jurisdictions.

This textbook provides a comprehensive introduction for students and professionals who are studying English for business or workplace communication and covers both spoken and written English. Based on up-to-date research in business communication and incorporating an international range of real-world authentic texts, this book deals with the realities of communication in business today. Key features of this book include: use of English in social media that reflects recent trends in business communication; coverage of the concept of communicative competence; analysis of email communication; introduction to informal English and English for socialisation as well as

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goodwill messages, such as thank you or appreciation messages, which are a part of everyday interaction in the workplace; examination of persuasive messages and ways to understand such messages; an e-resources website that includes authentic examples of different workplace genres and a reference section covering relevant research studies and weblinks for readers to better understand the topics covered in each chapter. This book goes beyond the traditional coverage of business English to provide a broad and practical textbook for those studying English in a workplace setting.

This book is a guide to creating a software architecture comprised of distributed components. While it is based on OMG's CORBA standard, the principles also apply to architecture built with other technology, such as Microsoft's DCOM.

The latest techniques for building a customer-focused enterprise environment "The authors have appreciated that MDM is a complex multidimensional area, and have set out to cover each of these dimensions in sufficient detail to provide adequate practical guidance to anyone implementing MDM. While this necessarily makes the book rather long, it means that the authors achieve a comprehensive treatment of MDM that is lacking in previous works." -- Malcolm Chisholm, Ph.D., President, AskGet.com Consulting, Inc. Regain control of your master data and maintain a master-entity-centric enterprise data framework using the detailed information in this authoritative guide. Master Data Management and Data Governance, Second Edition provides up-to-date

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coverage of the most current architecture and technology views and system development and management methods. Discover how to construct an MDM business case and roadmap, build accurate models, deploy data hubs, and implement layered security policies. Legacy system integration, cross-industry challenges, and regulatory compliance are also covered in this comprehensive volume. Plan and implement enterprise-scale MDM and Data Governance solutions Develop master data model Identify, match, and link master records for various domains through entity resolution Improve efficiency and maximize integration using SOA and Web services Ensure compliance with local, state, federal, and international regulations Handle security using authentication, authorization, roles, entitlements, and encryption Defend against identity theft, data compromise, spyware attack, and worm infection Synchronize components and test data quality and system performance

Following the AHIMA standards for education for both two-year HIT programs and four-year HIA programs, *Health Information: Management of a Strategic Resource*, 4th Edition describes the deployment of information technology and your role as a HIM professional in the development of the electronic health record. It provides clear coverage of health information infrastructure and systems along with health care informatics including technology, applications, and security. Practical applications provide hands-on experience in abstracting and manipulating health information data. From well-known HIM experts Mervat Abdelhak, Sara S. Grostick, and Mary Alice

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Hanken, this book includes examples from diverse areas of health care delivery such as long-term care, public health, home health care, and ambulatory care. An e-book version makes it even easier to learn to manage and use health data electronically. A focus on the electronic health care record helps you learn electronic methods of organizing, maintaining, and abstracting from the patient health care record. Learning features include a chapter outline, key words, common abbreviations, and learning objectives at the beginning of each chapter, and references at the end. Unique! Availability in the e-book format helps you in researching, abstracting, and managing data electronically. A study guide on the companion Evolve website includes interactive exercises and cases containing real-life medical records, letting you apply what you've learned from the book and in the classroom. Evolve logos within the textbook connect the material to the Evolve website, tying together the textbook, student study guide and online resources. Well-known and respected authors include Mervat Abdelhak and Mary Alice Hanken, past presidents of the American Health Information Management Association (AHIMA), and Sara S. Grostick, a 2007 AHIMA Triumph Award winner for excellence in education. Self-assessment quizzes test your learning and retention, with answers available on the companion Evolve website. Did You Know? boxes highlight interesting facts to enhance learning.

The objective of the workshops associated with ER 2001, the 20th International Conference on Conceptual Modeling, was to give participants the opportunity to present and

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discuss emerging hot topics, thus adding new perspectives to conceptual modeling. This, the 20th ER conference, the first of the 21st century, was also the first one in Japan. The conference was held on November 27-30, 2001 at Yokohama National University with 192 participants from 31 countries. ER 2001 encompasses the entire spectrum of conceptual modeling, from theoretical aspects to implementations, including fundamentals, applications, and software engineering. In particular, ER 2001 emphasized e-business and reengineering. To meet this objective, we selected the following four topics and planned four international workshops: – International Workshop on Conceptual Modeling of Human/Organizational/Social Aspects of Manufacturing Activities (HUMACS 2001) Manufacturing enterprises have to confront a host of demands. The competitive climate, enhanced by communication and knowledge sharing, will require increasingly rapid responses to market forces. Customer demands for higher quality, better services, and lower cost will force manufacturers to reach new levels of flexibility and adaptability. Sophisticated customers will demand products customized to meet their needs. Industries have so far sought to cope with these challenges primarily through advances in traditional capital by installing more powerful hardware and software technology. Attention to the role of humans combined with organizational and social schemes in manufacturing has only been marginal. The workshop HUMACS 2001 aimed to challenge the relevance of this last point. This book aims to provide an international forum for scholarly researchers, practitioners

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and academic communities to explore the role of information and communication technologies and its applications in technical and scholarly development. The conference attracted a total of 464 submissions, of which 152 submissions (including 4 poster papers) have been selected after a double-blind review process. Academic pioneering researchers, scientists, industrial engineers and students will find this series useful to gain insight into the current research and next-generation information science and communication technologies. This book discusses the aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of things, from classical to intelligent scope. The authors hope that readers find the volume interesting and valuable; it gathers chapters addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

Michael Murphy, Compliance Professional, is an international training and consulting specialist with 25 years of experience. Mike is President/CEO of Premier Consulting Services Inc, PCSThis guide is the second Mike along with his co-author, Mark Waterfill on complying with the requirements of HIPAA Privacy and Security Rules. Mark Waterfill, Attorney-At-Law specializes his practice in business and employment law. Mark is a share holder and senior partner with DannPecarNewman & Kleimanlocated in Indianapolis IN. In addition to his law practice Mark is an international speaker and author on various topics related to both business & employment law.

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This title provides advanced, in depth coverage of Enterprise JavaBeans (EJB) applications. It presents the EJB architecture from the point of view of the person developing EJB applications.

Bridge Maintenance, Safety, Management, Life-Cycle Sustainability and Innovations contains lectures and papers presented at the Tenth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2020), held in Sapporo, Hokkaido, Japan, April 11–15, 2021. This volume consists of a book of extended abstracts and a USB card containing the full papers of 571 contributions presented at IABMAS 2020, including the T.Y. Lin Lecture, 9 Keynote Lectures, and 561 technical papers from 40 countries. The contributions presented at IABMAS 2020 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of maintenance, safety, management, life-cycle sustainability and technological innovations of bridges. Major topics include: advanced bridge design, construction and maintenance approaches, safety, reliability and risk evaluation, life-cycle management, life-cycle sustainability, standardization, analytical models, bridge management systems, service life prediction, maintenance and management strategies, structural health monitoring, non-destructive testing and field testing, safety, resilience, robustness and redundancy, durability enhancement, repair and rehabilitation, fatigue and corrosion, extreme loads, and application of information and computer technology and artificial intelligence for bridges, among others. This volume

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provides both an up-to-date overview of the field of bridge engineering and significant contributions to the process of making more rational decisions on maintenance, safety, management, life-cycle sustainability and technological innovations of bridges for the purpose of enhancing the welfare of society. The Editors hope that these Proceedings will serve as a valuable reference to all concerned with bridge structure and infrastructure systems, including engineers, researchers, academics and students from all areas of bridge engineering.

Entity Information Life Cycle for Big Data walks you through the ins and outs of managing entity information so you can successfully achieve master data management (MDM) in the era of big data. This book explains big data's impact on MDM and the critical role of entity information management system (EIMS) in successful MDM. Expert authors Dr. John R. Talburt and Dr. Yinle Zhou provide a thorough background in the principles of managing the entity information life cycle and provide practical tips and techniques for implementing an EIMS, strategies for exploiting distributed processing to handle big data for EIMS, and examples from real applications. Additional material on the theory of EIIM and methods for assessing and evaluating EIMS performance also make this book appropriate for use as a textbook in courses on entity and identity management, data management, customer relationship management (CRM), and related topics. Explains the business value and impact of entity information management system (EIMS) and directly addresses the problem of EIMS design and

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operation, a critical issue organizations face when implementing MDM systems Offers practical guidance to help you design and build an EIM system that will successfully handle big data Details how to measure and evaluate entity integrity in MDM systems and explains the principles and processes that comprise EIM Provides an understanding of features and functions an EIM system should have that will assist in evaluating commercial EIM systems Includes chapter review questions, exercises, tips, and free downloads of demonstrations that use the OYSTER open source EIM system Executable code (Java .jar files), control scripts, and synthetic input data illustrate various aspects of CRUD life cycle such as identity capture, identity update, and assertions.

The book presents the proceedings of two conferences: the 16th International Conference on Data Science (ICDATA 2020) and the 19th International Conference on Information & Knowledge Engineering (IKE 2020), which took place in Las Vegas, NV, USA, July 27-30, 2020. The conferences are part of the larger 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing (CSCE'20), which features 20 major tracks. Papers cover all aspects of Data Science, Data Mining, Machine Learning, Artificial and Computational Intelligence (ICDATA) and Information Retrieval Systems, Information & Knowledge Engineering, Management and Cyber-Learning (IKE). Authors include academics, researchers, professionals, and students. Presents the proceedings of the 16th International Conference on Data Science

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(ICDATA 2020) and the 19th International Conference on Information & Knowledge Engineering (IKE 2020); Includes papers on topics from data mining to machine learning to informational retrieval systems; Authors include academics, researchers, professionals and students.

Entity Resolution and Information Quality presents topics and definitions, and clarifies confusing terminologies regarding entity resolution and information quality. It takes a very wide view of IQ, including its six-domain framework and the skills formed by the International Association for Information and Data Quality (IAIDQ). The book includes chapters that cover the principles of entity resolution and the principles of Information Quality, in addition to their concepts and terminology. It also discusses the Fellegi-Sunter theory of record linkage, the Stanford Entity Resolution Framework, and the Algebraic Model for Entity Resolution, which are the major theoretical models that support Entity Resolution. In relation to this, the book briefly discusses entity-based data integration (EBDI) and its model, which serve as an extension of the Algebraic Model for Entity Resolution. There is also an explanation of how the three commercial ER systems operate and a description of the non-commercial open-source system known as OYSTER. The book concludes by discussing trends in entity resolution research and practice. Students taking IT courses and IT professionals will find this book invaluable. First authoritative reference explaining entity resolution and how to use it effectively Provides practical system design advice to help you get a competitive

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advantage Includes a companion site with synthetic customer data for applicatory exercises, and access to a Java-based Entity Resolution program.

Created by the AICPA, this authoritative guide provides interpretative guidance to enable accountants to examine and report on an entity's cybersecurity risk management program and controls within that program. The guide delivers a framework which has been designed to provide stakeholders with useful, credible information about the effectiveness of an entity's cybersecurity efforts.

A comprehensive treatment of systems and software testing using state of the art methods and tools This book provides valuable insights into state of the art software testing methods and explains, with examples, the statistical and analytic methods used in this field. Numerous examples are used to provide understanding in applying these methods to real-world problems. Leading authorities in applied statistics, computer science, and software engineering present state-of-the-art methods addressing challenges faced by practitioners and researchers involved in system and software testing. Methods include: machine learning, Bayesian methods, graphical models, experimental design, generalized regression, and reliability modeling. Analytic Methods in Systems and Software Testing presents its comprehensive collection of methods in four parts: Part I: Testing Concepts and Methods; Part II: Statistical Models; Part III:

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Testing Infrastructures; and Part IV: Testing Applications. It seeks to maintain a focus on analytic methods, while at the same time offering a contextual landscape of modern engineering, in order to introduce related statistical and probabilistic models used in this domain. This makes the book an incredibly useful tool, offering interesting insights on challenges in the field for researchers and practitioners alike. Compiles cutting-edge methods and examples of analytical approaches to systems and software testing from leading authorities in applied statistics, computer science, and software engineering Combines methods and examples focused on the analytic aspects of systems and software testing Covers logistic regression, machine learning, Bayesian methods, graphical models, experimental design, generalized regression, and reliability models Written by leading researchers and practitioners in the field, from diverse backgrounds including research, business, government, and consulting Stimulates research at the theoretical and practical level Analytic Methods in Systems and Software Testing is an excellent advanced reference directed toward industrial and academic readers whose work in systems and software development approaches or surpasses existing frontiers of testing and validation procedures. It will also be valuable to post-graduate students in computer science and mathematics.

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Internal and external forces such as globalization, global interconnectivity, automation, and other technological advancements are making today's supply chains highly sophisticated and complex. For organizations that produce, manufacture or distribute products, there's often a high level of interdependence and connectivity with their suppliers and their customers and business partners. Although the interconnectedness of these organizations can be beneficial (increased revenues, expanded market opportunities, and cost reduction), the ability of organizations to meet their goals is often increasingly dependent on events, processes, and controls that are not visible and are often beyond their control – such as a supplier's controls. That's why the demand for transparency in supply chains is now higher than ever before, and why this is the perfect time for you to help organizations assess their supply chain risks, evaluate the system controls within their manufacturing, production, or distribution systems, and communicate their supply chain management efforts to those with whom they do business. Accountants and financial managers can also increase the credibility of the supply chain information communicated by the organization by providing an opinion on the organization's supply chain efforts. This guide enables the accountant and financial manager to examine and report on the description of a system for manufacturing, producing and distributing goods as well as on the

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controls within that system using a dynamic, proactive, and agile approach. It will show how to conduct this examination in accordance with the attestation standards. The guide may also be helpful when providing readiness assessments to clients, who are not quite ready for an examination level service and need help to get there. The guide also includes excerpts from the two distinct, but complementary sets of criteria developed by the AICPA to assist practitioners with SOC for Supply Chain engagements: the description criteria and the 2017 trust services criteria.

Sustainability and sustainable development have become popular goals. They have also become wide-ranging terms that can be applied to any entity or enterprise on a local or a global scale for long time periods. As enterprises and systems become more complex and development a support costs increase, the question remains: how does one engineer an ent

Learn how to institute and implement enterprise architecture in your organization. You can make a quick start and establish a baseline for your enterprise architecture within ten weeks, then grow and stabilize the architecture over time using the proven Ready, Set, Go Approach. Reading this book will: 1. Give you directions on how to institute and implement enterprise architecture in your organization. You will be able to build close relationships with stakeholders and

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delivery teams, but you will not need to micromanage the architecture's operations. 2. Increase your awareness that enterprise architecture is about business, not information technology. 3. Enable you to initiate and facilitate dramatic business development. The architecture of an enterprise must be tolerant of currently unknown business initiatives. 4. Show you how to get a holistic view of the process of implementing enterprise architecture. 5. Make you aware that information is a key business asset and that information architecture is a key part of the enterprise architecture. 6. Allow you to learn from our experiences. This book is based on our 30 years of work in the enterprise architecture field, colleagues in Europe, customer cases, and students. We do not pretend to cover all you need to know about enterprise architecture within these pages. Rather, we give you the information that is most important for effective and successful guidance. Sometimes, less is more. If your company is about to make a major change and you are looking for a way to reduce the changes into manageable pieces—and still retain control of how they fit together—this is your handbook. Maybe you are already acting as an enterprise architect and using a formal method, but you need practical hints. Or maybe you are about to set up an enterprise architect network or group of specialists and need input on how to organize your work. The Ready-Set-Go method for

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introducing enterprise architecture provides you, the enterprise architect, with an immediate understanding of the basic steps for starting, organizing, and operating the entirety of your organization's architecture. Chapter 1: Ready shows how to model and analyze your business operations, assess their current status, construct a future scenario, compare it to the current structure, analyze what you see, and show the result in a city plan. Chapter 2: Set deals with preparing for the implementation of the architecture with governance, enterprise architecture organization, staffing, etc. This is the organizing step before beginning the actual work. Chapter 3: Go establishes how to implement a city plan in practice. It deals with the practicalities of working as an enterprise architect and is called the "running" step. The common thread through all aspects of the enterprise architect's work is the architect's mastery of a number of tools, such as business models, process models, information models, and matrices. We address how to initiate the architecture process within the organization in such a way that the overarching enterprise architecture and architecture-driven approach can be applied methodically and gradually improved.

Just as no man is an island, so no business can operate without being part of a network of businesses proactively collaborating and sharing information for

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mutual success. This book presents some of the latest thinking on collaborative systems by leading experts in the field.

This book collects articles presented at the 13th International Conference on Information Technology- New Generations, April, 2016, in Las Vegas, NV USA. It includes over 100 chapters on critical areas of IT including Web Technology, Communications, Security, and Data Mining.

This volume contains the proceedings of the 6th International Conference of the BCS Specialist Group on Information Systems Methodologies. The conference brought together papers on methodology issues related to the development and management of emerging technology based information systems. As usual there was a good range of papers addressing the 'soft' and 'hard' aspects of IS development and management. Methodologies for Developing and Managing Emerging Technology-based Information Systems will be of interest to practitioners who are engaged in systems development and modifying or aligning existing methodologies to practice.

Information Modeling and Relational Databases, Second Edition, provides an introduction to ORM (Object-Role Modeling) and much more. In fact, it is the only book to go beyond introductory coverage and provide all of the in-depth instruction you need to transform knowledge from domain experts into a sound database design. This book

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is intended for anyone with a stake in the accuracy and efficacy of databases: systems analysts, information modelers, database designers and administrators, and programmers. Terry Halpin, a pioneer in the development of ORM, blends conceptual information with practical instruction that will let you begin using ORM effectively as soon as possible. Supported by examples, exercises, and useful background information, his step-by-step approach teaches you to develop a natural-language-based ORM model, and then, where needed, abstract ER and UML models from it. This book will quickly make you proficient in the modeling technique that is proving vital to the development of accurate and efficient databases that best meet real business objectives. Presents the most indepth coverage of Object-Role Modeling available anywhere, including a thorough update of the book for ORM2, as well as UML2 and E-R (Entity-Relationship) modeling. Includes clear coverage of relational database concepts, and the latest developments in SQL and XML, including a new chapter on the impact of XML on information modeling, exchange and transformation. New and improved case studies and exercises are provided for many topics.

This text aims to provide a first course in information systems. It features chapter summaries (inputs and outputs of each phase), exercises, examples, issues to debate and a case study of a typical organization. It is intended for first undergraduate and postgraduate courses.

This handbook is about methods, tools and examples of how to architect an enterprise

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through considering all life cycle aspects of Enterprise Entities. It is based on ISO15704:2000, or the GERAM Framework. A wide audience is addressed, as the handbook covers methods and tools necessary to design or redesign enterprises, as well as those necessary to structure the implementation into manageable projects. The Internet of Things (IoT) is an emerging network superstructure that will connect physical resources and actual users. It will support an ecosystem of smart applications and services bringing hyper-connectivity to our society by using augmented and rich interfaces. Whereas in the beginning IoT referred to the advent of barcodes and Radio Frequency Identification (RFID), which helped to automate inventory, tracking and basic identification, today IoT is characterized by a dynamic trend toward connecting smart sensors, objects, devices, data and applications. The next step will be “cognitive IoT,” facilitating object and data re-use across application domains and leveraging hyper-connectivity, interoperability solutions and semantically enriched information distribution. The Architectural Reference Model (ARM), presented in this book by the members of the IoT-A project team driving this harmonization effort, makes it possible to connect vertically closed systems, architectures and application areas so as to create open interoperable systems and integrated environments and platforms. It constitutes a foundation from which software companies can capitalize on the benefits of developing consumer-oriented platforms including hardware, software and services. The material is structured in two parts. Part A introduces the general concepts developed for and

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applied in the ARM. It is aimed at end users who want to use IoT technologies, managers interested in understanding the opportunities generated by these novel technologies, and system architects who are interested in an overview of the underlying basic models. It also includes several case studies to illustrate how the ARM has been used in real-life scenarios. Part B then addresses the topic at a more detailed technical level and is targeted at readers with a more scientific or technical background. It provides in-depth guidance on the ARM, including a detailed description of a process for generating concrete architectures, as well as reference manuals with guidelines on how to use the various models and perspectives presented to create a concrete architecture. Furthermore, best practices and tips on how system engineers can use the ARM to develop specific IoT architectures for dedicated IoT solutions are illustrated and exemplified in reverse mapping exercises of existing standards and platforms. New core text for Managing Information modules examining the issue of information management from both a business and an IT perspective. Grounded in the theory, it takes a practical, problem-solving approach that provides students with tools and insights to understand how to formulate and implement information management strategies.

Learn how LightSwitch can accelerate and simplify application development As Microsoft's newest offering for simplifying application development, LightSwitch opens the development door to creating applications without writing code. This introductory,

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full-color book shows you how to quickly create, modify, and distribute information for your business with LightSwitch. Packed with simple example programs, this beginner-level resource guides you through a complete small business application using LightSwitch to demonstrate the capabilities of this exciting new tool. You'll explore the most common application development issues that developers encounter on a daily basis and learn how LightSwitch makes them easier to handle with solutions that streamline application development without requiring code. Gets you started with Visual Studio LightSwitch, Microsoft's newest offering for simplifying application development Shows you how to prepare a LightSwitch application and looks at the technologies behind a LightSwitch application Addresses working with simple data screens, working with master-detail data screens, and using exciting SQL server data Looks at deploying applications, using SharePoint 2010 lists, and extending Visual Studio LightSwitch If you're ready to simplify the application development process without writing a piece of code, then this is the book for you!

Today's management world continually relies on technological efficiency to function and perform at a high standard. As technology becomes a greater part in many fields, understanding and managing this factor is integral for organizations. Inventive Approaches for Technology Integration and Information Resources Management provides an overview and analysis of knowledge management in sustainability, emergency preparedness, and IT, among other fields integral to the modern

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technological era. By providing a foundation for innovative practices in using technology and information resources, this publication is essential for practitioners and professionals, as well as undergraduate/graduate students and academicians.

A compendium of information to assist organizations in meeting privacy responsibilities and developing a privacy program.

A systematic approach to consistently successful software development. In the age of the Internet, where software is more mission-critical than ever, it's no longer enough for your development projects to succeed some of the time. You need to deliver excellence, consistently—and you must do it faster than ever. Successful Software Development proceeds from the fact that there is no one way to develop software systems and introduces a model for a mature software development process that accommodates flexibility, the Systems Engineering Environment (SEE). This model comprises two fundamental, interlocked elements: the policies and procedures that define how software development is performed and the technologies available to get the job done. Using the SEE framework, learn how to: Understand and "sell" the business case for software improvement Establish and nourish an ongoing, productive dialogue between developers and customers Manage the multiple constituencies, personalities, issues, and egos that complicate software development Create plans that reflect the need for change—and take into account real-world risks Write clearer, more useful contracts and statements of work Successful Software Development includes

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over 200 figures, process diagrams, and annotated outlines—all designed to help you understand and implement better processes quickly and with less resistance. This book's techniques will work with any software quality methodology you choose, as well as SEI's capability maturity models and ISO 9000. They will work with any development technology, from CASE to object-oriented design to rapid prototyping. And they will work for you whether you're a programmer, manager, or customer. When it comes to delivering better software, if you need to get results, you need this book.

Business intelligence initiatives have been dominating the technology priority list of many organizations. However, the lack of effective information quality and governance strategies and policies has been meeting these initiatives with some challenges.

Information Quality and Governance for Business Intelligence presents the latest exchange of academic research on all aspects of practicing and managing information using a multidisciplinary approach that examines its quality for organizational growth. This book is an essential reference tool for researchers, practitioners, and university students specializing in business intelligence, information quality, and information systems.

Offers an architectural overview of the programming language, including Entity Beans, Session Beans, transactions, design strategies, and XML deployment descriptors. Entity Information Life Cycle for Big Data walks you through the ins and outs of managing entity information so you can successfully achieve master data management

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(MDM) in the era of big data. This book explains big data's impact on MDM and the critical role of entity information management system (EIMS) in successful MDM. Expert authors Dr. John R. Talburt and Dr. Yinle Zhou provide a thorough background in the principles of managing the entity information life cycle and provide practical tips and techniques for implementing an EIMS, strategies for exploiting distributed processing to handle big data for EIMS, and examples from real applications. Additional material on the theory of EIIM and methods for assessing and evaluating EIMS performance also make this book appropriate for use as a textbook in courses on entity and identity management, data management, customer relationship management (CRM), and related topics. Explains the business value and impact of entity information management system (EIMS) and directly addresses the problem of EIMS design and operation, a critical issue organizations face when implementing MDM systems Offers practical guidance to help you design and build an EIM system that will successfully handle big data Details how to measure and evaluate entity integrity in MDM systems and explains the principles and processes that comprise EIM Provides an understanding of features and functions an EIM system should have that will assist in evaluating commercial EIM systems Includes chapter review questions, exercises, tips, and free downloads of demonstrations that use the OYSTER open source EIM system Executable code (Java .jar files), control scripts, and synthetic input data illustrate various aspects of CRUD life cycle such as identity capture, identity update, and

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assertions

Updated as of January 1, 2018, this guide includes relevant guidance contained in applicable standards and other technical sources. It explains the relationship between a service organization and its user entities, provides examples of service organizations, describes the description criteria to be used to prepare the description of the service organization's system, identifies the trust services criteria as the criteria to be used to evaluate the design and operating effectiveness of controls, explains the difference between a type 1 and type 2 SOC 2 report, and provides illustrative reports for CPAs engaged to examine and report on system and organization controls at a service organization. It also describes the matters to be considered and procedures to be performed by the service auditor in planning, performing, and reporting on SOC 2 and SOC 3 engagements. New to this edition are: Updated for SSAE No. 18 (clarified attestation standards), this guide has been fully conformed to reflect lessons learned in practice Contains insight from expert authors on the SOC 2 working group composed of CPAs who perform SOC 2 and SOC 3 engagements Includes illustrative report paragraphs describing the matter that gave rise to the report modification for a large variety of situations Includes a new appendix for performing and reporting on a SOC 2 examination in accordance with International Standards on Assurance Engagements (ISAEs) or in accordance with both the AICPA's attestation standards and the ISAEs The management of telecommunications networks and services is one of the most

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challenging of software endeavors—partly because of the size and the distributed nature of networks; partly because of the convergence of communications technologies; but mainly because of sheer complexity and diversity of networks and services. The TM Forum's Solutions Frameworks (NGOSS) help address these challenges by providing a framework for the development of management applications—those software applications that provide the building blocks for management solutions. The members of the TM Forum have elaborated many parts of NGOSS to make it practical—including in the area of information modeling, process analysis, and contract definition. This book further elaborates NGOSS by examining the challenging area of interface design. One of the costs of deploying a new service is the cost of integrating all the necessary applications into an effective software solution to manage the service. This cost has been dubbed the “integration tax” and can turn out to be 7ve times the capital cost of procuring the management software in the irst place. From their long experience of the design and standardization of management applications, the authors have extracted a core set of design patterns for the development of effective and consistent interfaces to management applications. Adopting these patterns across the industry could reduce the learning curve for software developers and allow service providers and systems integrators to rapidly and reliably deploy management solutions and thereby markedly reduce the integration tax.

Enhances the use of enterprise models as an effective communication medium

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between business and technical personnel. Details the blue-print of the to-be developed business system.

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