

Process Modeling With Aris A Practical Introduction

Enterprises have to adapt their business processes quickly and efficiently to new business environments to ensure business success and long term survival. It is not sufficient to apply best business practices but new practices have to be developed and executed. These requirements are met by new business process automation technologies, based on concepts like web services, EAI, workflow, enterprise service architectures, and automation engines. Business process automation becomes a key enabler for business process excellence. This book explains major trends in business process automation and shows how new technologies and solutions are applied in practice. It outlines how process automation becomes an element of an overall process lifecycle management approach, structured on the basis of the ARIS House of business excellence and implemented through software tools like the ARIS toolset. This textbook helps beginners learn ARIS and advanced users will find useful and valuable hints. It complements existing training as well as self studies. First, the reader learns the basics of process organization as well as the roles and effects of computers in enterprises. Next, the ARIS

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methodologies are explained. Finally, the essential concept, the ARIS views (organization, function, data and process) are explained and the most common models are introduced. The book offers many practical modeling examples, exercises, and solutions.

Accessible text features over 100 reality-based examples pulled from the science, engineering, and operations research fields. Prerequisites: ordinary differential equations, continuous probability.

Numerous references. Includes 27 black-and-white figures. 1978 edition.

A unifying foundation to design and implement process-aware information systems This publication takes on the formidable task of establishing a unifying foundation and set of common underlying principles to effectively model, design, and implement process-aware information systems. Authored by leading authorities and pioneers in the field, Process-Aware Information Systems helps readers gain a thorough understanding of major concepts, languages, and techniques for building process-aware applications, including:

- * UML and EPCs: two of the most widely used notations for business process modeling
- * Concrete techniques for process design and analysis
- * Process execution standards: WfMC and BPEL
- * Representative commercial tools: ARIS, TIBCO Staffware, and FLOWer

Each chapter begins with a description

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of the problem domain and then progressively unveils relevant concepts and techniques. Examples and illustrations are used extensively to clarify and simplify complex material. Each chapter ends with a set of exercises, ranging from simple questions to thought-provoking assignments. Sample solutions for many of the exercises are available on the companion Web site. Armed with a new and deeper understanding, readers are better positioned to make their own contributions to the field and evaluate various approaches to a particular task or problem. This publication is recommended as a textbook for graduate and advanced undergraduate students in computer science and information systems, as well as for professionals involved in workflow and business process management, groupware and teamwork, enterprise application integration, and business-to-business integration. A Solution's Manual is available online. An Instructor Support FTP site is also available.

Process Modelling and Model Analysis describes the use of models in process engineering. Process engineering is all about manufacturing--of just about anything! To manage processing and manufacturing systematically, the engineer has to bring together many different techniques and analyses of the interaction between various aspects of the process. For example, process engineers would apply models to perform feasibility analyses of novel process

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designs, assess environmental impact, and detect potential hazards or accidents. To manage complex systems and enable process design, the behavior of systems is reduced to simple mathematical forms. This book provides a systematic approach to the mathematical development of process models and explains how to analyze those models. Additionally, there is a comprehensive bibliography for further reading, a question and answer section, and an accompanying Web site developed by the authors with additional data and exercises. Introduces a structured modeling methodology emphasizing the importance of the modeling goal and including key steps such as model verification, calibration, and validation Focuses on novel and advanced modeling techniques such as discrete, hybrid, hierarchical, and empirical modeling Illustrates the notions, tools, and techniques of process modeling with examples and advances applications

Constitutes the refereed post-workshop proceedings of 9 international workshops held in Milano, Italy, in conjunction with the 6th International Conference on Business Process Management, BPM 2008, in September 2008.

The Complete Business Process Handbook is the most comprehensive body of knowledge on business processes with revealing new research. Written as a practical guide for Executives, Practitioners, Managers and Students by the authorities that have

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shaped the way we think and work with process today. It stands out as a masterpiece, being part of the BPM bachelor and master degree curriculum at universities around the world, with revealing academic research and insight from the leaders in the market. This book provides everything you need to know about the processes and frameworks, methods, and approaches to implement BPM. Through real-world examples, best practices, LEADing practices and advice from experts, readers will understand how BPM works and how to best use it to their advantage. Cases from industry leaders and innovators show how early adopters of LEADing Practices improved their businesses by using BPM technology and methodology. As the first of three volumes, this book represents the most comprehensive body of knowledge published on business process. Following closely behind, the second volume uniquely bridges theory with how BPM is applied today with the most extensive information on extended BPM. The third volume will explore award winning real-life examples of leading business process practices and how it can be replaced to your advantage. Learn what Business Process is and how to get started Comprehensive historical process evolution In-depth look at the Process Anatomy, Semantics and Ontology Find out how to link Strategy to Operation with value driven BPM Uncover how to establish a way of Thinking,

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Working, Modelling and Implementation Explore comprehensive Frameworks, Methods and Approaches How to build BPM competencies and establish a Center of Excellence Discover how to apply Social BPM, Sustainable and Evidence based BPM Learn how Value & Performance Measurement and Management Learn how to roll-out and deploy process Explore how to enable Process Owners, Roles and Knowledge Workers Discover how to Process and Application Modelling Uncover Process Lifecycle, Maturity, Alignment and Continuous Improvement Practical continuous improvement with the way of Governance Future BPM trends that will affect business Explore the BPM Body of Knowledge BPMN (Business Process Model and Notation) is the established standard for business process modeling. Only a few years after its first publication, it has gained widespread adoption in practice. All important modeling tools support BPMN diagramming. It is possible to create business-oriented diagrams, but also technical models for process execution in business process management systems (BPMS). This book provides a stepwise introduction to BPMN, using many examples close to practice. Starting with the basic elements for modeling sequence flow, all BPMN 2.0 diagrams are presented and discussed in detail. You will gain a profound understanding of the complete notation, and you will be able to make correct use of the different language elements. In the

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second edition, a collection of useful modeling patterns has been added. These patterns provide best-practice solutions for typical problems arising in the practice of process modeling.

The automation of cross-organizational business processes is one of the most important trends of the information age. Instead of a tight integration however, collaborating organizations rather strive for a loose coupling of their information systems. Supporting this objective, the Architecture of Interoperable Information Systems (AIOS) represents a means for the comprehensive description of loosely coupled, interoperating information systems and for the systematic, model-based enactment of collaborative business processes. To this aim, it combines concepts from the areas of enterprise modeling, collaborative business and Service-oriented Computing. At the core of the architecture lies the Business Interoperability Interface, which describes the information system boundaries of one organization to its collaboration partners and connects internal and external information systems. Detailed procedure models specify the usage of the AIOS; its application to an example scenario as well as prototypes that implement core aspects of the AIOS exemplify the method. This book addresses researchers as well as practitioners interested in the areas of organizational interoperability and the

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modeling and enactment of collaborative business processes.

This book describes in detail how ARIS methods model and identify business processes by means of the UML (Unified Modeling Language), leading to an information model that serves as the basis for a systematic and intelligent development of application systems. Multiple real-world examples using SAP R/3 illustrate aspects of business process modeling including methods of knowledge management, implementation of workflow systems and standard software solutions, and the deployment of ARIS methods.

In recent years the management of business processes has emerged as one of the major developments to ease the understanding of, communication about, and evolution of process-oriented information systems in a variety of application domains. Based on explicit representations of business processes, process stakeholders can communicate about process structure, content, and possible improvements. Formal analysis, verification and simulation techniques have the potential to show deficits and to effectively lead to better and more flexible processes. Process mining facilitates the discovery of process specifications from process logs that are readily available in many organizations. This volume of Springer's Lecture Notes in Computer Science contains the papers presented at

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the 2nd International Conference on Business Process Management (BPM 2004) which took place in Potsdam, Germany, in June 2004. From more than 70 submissions BPM 2004 received, 19 high-quality research papers were selected. BPM 2004 is part of a conference series that provides a forum for researchers and practitioners in all aspects of business process management. In June 2003, the 1st International Conference on Business Process Management took place in Eindhoven, The Netherlands. Its proceedings were published as Volume 2678 of Lecture Notes in Computer Science by Springer-Verlag. A previous volume (LNCS1806) on Business Process Management was based on four events devoted to this topic.

Asset Condition, Information Systems and Decision Models, is the second volume of the Engineering Asset Management Review Series. The manuscripts provide examples of implementations of asset information systems as well as some practical applications of condition data for diagnostics and prognostics. The increasing trend is towards prognostics rather than diagnostics, hence the need for assessment and decision models that promote the conversion of condition data into prognostic information to improve life-cycle planning for engineered assets. The research papers included here serve to support the on-going development of Condition Monitoring standards. This volume

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comprises selected papers from the 1st, 2nd, and 3rd World Congresses on Engineering Asset Management, which were convened under the auspices of ISEAM in collaboration with a number of organisations, including CIEAM Australia, Asset Management Council Australia, BINDT UK, and Chinese Academy of Sciences, Beijing University of Chemical Technology, China. Asset Condition, Information Systems and Decision Models will be of particular interest to finance, maintenance, and operations personnel whose roles directly affect the capability value of engineering asset base, as well as asset managers in both industry and government. Mathematical modeling is the art and craft of building a system of equations that is both sufficiently complex to do justice to physical reality and sufficiently simple to give real insight into the situation. *Mathematical Modeling: A Chemical Engineer's Perspective* provides an elementary introduction to the craft by one of the century's most distinguished practitioners. Though the book is written from a chemical engineering viewpoint, the principles and pitfalls are common to all mathematical modeling of physical systems. Seventeen of the author's frequently cited papers are reprinted to illustrate applications to convective diffusion, formal chemical kinetics, heat and mass transfer, and the philosophy of modeling. An essay of acknowledgments, asides, and footnotes captures

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personal reflections on academic life and personalities. Describes pitfalls as well as principles of mathematical modeling Presents twenty examples of engineering problems Features seventeen reprinted papers Presents personal reflections on some of the great natural philosophers Emphasizes modeling procedures that precede extensive calculations

Business process management is the basis for all initiatives like SCM, CRM, ERP, or business intelligence. New component and internet-based software architectures and web services require a solid process management to deliver the expected business success. However, many organizations still struggle to find the right approach to business process management. IDS Scheer delivers with ARIS the framework to meet this challenge successfully. IDS Scheer has successfully applied its ARIS business process management approach at thousands of organizations worldwide such as Intel, Siemens, or the US Navy. This book presents international case studies in various manufacturing and service industries as well as the public sector. It shows how to achieve business process excellence in practice.

Over the past decades, geological survey organizations have digitized their data handling and holdings, unlocking vast amounts of data and information for computer processing. They have undertaken 3-D

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modeling alongside, and in some cases instead of, conventional geological mapping and begun delivering both data and interpretations to increasingly diverse stakeholder communities. Applied Multidimensional Geological Modeling provides a citable central source that documents the current capabilities and contributions of leading geological survey organization and other practitioners in industry and academia that are producing multidimensional geological models. This book focuses on applications related to human interactions with conditions in the shallow subsurface, within 100-200 m of the surface. The 26 chapters, developed by 100 contributors associated with 37 organizations, discuss topics relevant to any geologist, scientist, engineer, urban planner, or decision maker whose practice includes assessment or planning of underground space. The 1st study edition is based on the 2nd hardcover edition of "Business Process Engineering". Several inconsistencies and minor modifications have been carried out. This study edition is a response to many requests for a budget-priced edition for students. This edition pursues a holistic descriptive approach that is based on the Architecture of Integrated Information Systems (ARIS) developed by the author. In addition to the data view, this approach also comprises the function, organization and control views, and encompasses all phases of the information system lifecycle - from analysis, requirements definition and design specification to implementation. The reference models developed here can thus serve as initial models for concrete applications. The illustrations are oriented strongly

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toward standard software in order to reflect their significance in terms of real-world representations. In particular, the discussion applies examples from the R/3 system from SAP AG and from the systems from IDS Prof. Scheer GmbH, build on concepts developed by the author. No "user description" of concrete systems is provided; instead, general foundations are laid in order to facilitate a deeper understanding of the application logic that is reflected in standard software. An attempt is made to close the gap between business administration theory and the "operating instructions" of standard software.

IBM® Business Process Manager (IBM BPM) is a comprehensive business process management (BPM) suite that provides visibility and management of your business processes. IBM BPM supports the whole BPM lifecycle approach: Discover and document Plan Implement Deploy Manage Optimize Process owners and business owners can use this solution to engage directly in the improvement of their business processes. IBM BPM excels in integrating role-based process design, and provides a social BPM experience. It enables asset sharing and creating versions through its Process Center. The Process Center acts as a unified repository, making it possible to manage changes to the business processes with confidence. IBM BPM supports a wide range of standards for process modeling and exchange. Built-in analytics and search capabilities help to further improve and optimize the business processes. This IBM Redbooks® publication provides valuable information for project teams and business people that

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are involved in projects using IBM BPM. It describes the important design decisions that you face as a team. These decisions invariably have an effect on the success of your project. These decisions range from the more business-centric decisions, such as which should be your first process, to the more technical decisions, such as solution analysis and architectural considerations. ARIS (Architecture of Integrated Information Systems) is a unique and internationally renowned method for optimizing business processes and implementing application systems. This book describes in detail how ARIS methods model and realize business processes by means of UML (Unified Modeling Language), leading to an information model that is the keystone for a systematic and intelligent method of developing application systems. Multiple real-world examples - including knowledge management, implementation of workflow systems and standard software solutions (SAP R/3 in particular) - address the deployment of ARIS methods.

This book constitutes the proceedings of the second workshop on Business Process Modeling Notation, BPMN 2010, held in Potsdam, Germany, in October 2010. The 6 research papers presented were carefully reviewed and selected from 16 submissions. In addition, 3 short papers and the extended abstracts of 3 invited talks are included. The BPMN workshop series provides a forum for academics and practitioners who share an interest in business process modeling using the Business Process Modeling Notation, which is seen by many as the de facto standard for business process

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modeling. BPMN promises to bridge business and IT and brings process design and implementation closer together.

Business process management is usually treated from two different perspectives: business administration and computer science. While business administration professionals tend to consider information technology as a subordinate aspect in business process management for experts to handle, by contrast computer science professionals often consider business goals and organizational regulations as terms that do not deserve much thought but require the appropriate level of abstraction. Matthias Weske argues that all communities involved need to have a common understanding of the different aspects of business process management. To this end, he details the complete business process lifecycle from the modeling phase to process enactment and improvement, taking into account all different stakeholders involved. After starting with a presentation of general foundations and abstraction models, he explains concepts like process orchestrations and choreographies, as well as process properties and data dependencies. Finally, he presents both traditional and advanced business process management architectures, covering, for example, workflow management systems, service-oriented architectures, and data-driven approaches. In addition, he shows how standards like WfMC, SOAP, WSDL, and BPEL fit into the picture. This textbook is ideally suited for classes on business process management, information systems architecture, and workflow management. This 3rd edition contains a new

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chapter on business decision modelling, covering the Decision Model and Notation (DMN) standard; the chapter on process choreographies has been streamlined, and numerous clarifications have been fetched throughout the book. The accompanying website www.bpm-book.com contains further information and additional teaching material.

This book shows you how to achieve business process excellence through change management activities, with case studies from major corporations such as American Meter and the US Navy. The book defines business process change management as information, communication, and training that enable people to make change and improvements happen. Using case studies the text shows how this change management is applied in practice using a framework like the ARIS House of Business Process Excellence or software tools like the ARIS Toolset.

This textbook covers the entire Business Process Management (BPM) lifecycle, from process identification to process monitoring, covering along the way process modelling, analysis, redesign and automation. Concepts, methods and tools from business management, computer science and industrial engineering are blended into one comprehensive and inter-disciplinary approach. The presentation is illustrated using the BPMN industry standard defined by the Object Management Group and widely endorsed by practitioners and vendors worldwide. In addition to explaining the relevant conceptual background, the book provides dozens of examples, more than 230 exercises – many with solutions – and numerous suggestions for further reading. This second edition includes extended and

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completely revised chapters on process identification, process discovery, qualitative process analysis, process redesign, process automation and process monitoring. A new chapter on BPM as an enterprise capability has been added, which expands the scope of the book to encompass topics such as the strategic alignment and governance of BPM initiatives. The textbook is the result of many years of combined teaching experience of the authors, both at the undergraduate and graduate levels as well as in the context of professional training. Students and professionals from both business management and computer science will benefit from the step-by-step style of the textbook and its focus on fundamental concepts and proven methods. Lecturers will appreciate the class-tested format and the additional teaching material available on the accompanying website.

This practical "how-to" guide to both using the ARIS Design Platform and how to use it to create real business models, follows Rob Davis' hugely successful Business Process Modelling with ARIS (Springer 2001). This second volume describes the new release of ARIS 7 Design Platform including ARIS Business Architect and ARIS Business Designer. Containing tips, techniques and short cuts gained from practical experience, this book show how to use ARIS in an easy way, supporting smart methods and smart models, and displays how ARIS can be used as a powerful tool for BPM. This book is a must-have guide and reference for all existing and new users of ARIS.

This book constitutes the refereed proceedings of the 6th International Conference on Electronic Government held in September 2007. The 37 revised papers were selected from numerous submissions. They cover research foundations, frameworks and methods, process design and interoperability, electronic services, policies and strategies, assessment and evaluation, participation and democracy,

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and perspectives on e-government.

Following on from Rob Davis' successful introductory book, ARIS Design Platform: Getting Started with BPM, Rob now covers in detail some of the more advanced concepts of using ARIS Business Architect. This is a practical 'how-to' guide and contains tips, techniques and short cuts gained from practical experience and explains clearly how to use ARIS and why ARIS is a powerful tool for process modeling. Advanced concepts such as the following are presented in this reader-friendly and concise guide: - Matrix editor, - Find and query, - Model generation, - Method filters and method changes, - Templates and fonts, - Reports and semantic checks, - Macros, - Transformations, - Database administration, - User management. This easy-to-follow advanced text is a must have guide and reference for all users who want to increase their ARIS skills, and for those who need to undertake advanced model and database management.

Business process modeling plays an important role in the management of business processes. As valuable design artifacts, business process models are subject to quality considerations. The absence of formal errors such as deadlocks is of paramount importance for the subsequent implementation of the process. In his book Jan Mendling develops a framework for the detection of formal errors in business process models and the prediction of error probability based on quality attributes of these models (metrics). He presents a precise description of Event-driven Process Chains (EPCs), their control-flow semantics and a suitable correctness criterion called EPC soundness. The first English-language edition of this book was published in 1989 under the title "Enterprise-Wide Data Modelling." It introduced a new enterprise data model that has since gone on to enjoy widespread use as a reference model. Since that

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time, the author has continued to develop the representation of application problems, both on a theoretical basis using modeling languages and on a practical basis using real-world studies. This has led to so many new aspects that this second English-language edition (the original German version is now in its fifth edition) constitutes a completely new book. The new title expresses the stricter emphasis on business processes in contrast to the previous edition, which was geared more toward a functional structure. This approach reflects the trend toward process oriented structural and procedural organization in enterprises that is currently being supported by new means of information processing. Perhaps the most obvious way in which the second English-language edition differs from the first is in the increased number of pages. This is a direct result of the higher degree of detail and the more thorough problem description presented in the new edition. The degree of detail has increased in the case of those problems that are particularly important in terms of selecting and designing information systems in an industrial enterprise, e.g., the product description and CAM factory organization. This approach provides greater reality and thus facilitates a better understanding of the complex organism that is an industrial enterprise.

This book constitutes the refereed proceedings of the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, held in London, UK, in June 2011. The 42 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 320 submissions. In addition the book contains the abstracts of 2 keynote speeches. The contributions are organized in topical sections on requirements; adaptation and evolution; model transformation; conceptual design; domain specific languages; case studies and experiences; mining and matching; business process modelling; validation and quality;

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and service and management.

The ARIS architecture developed here is described in concrete terms as an information model within the entity-relationship approach. This information model, in turn, serves as the basis for the systematic and rational application of methods in the development of information systems.

Furthermore, it provides the basis for storing the enterprise's application-specific data, organization and function models. The ARIS architecture constitutes a framework within which integrated applications can be developed, optimized and converted into EDP-technical implementations. At the same time, it demonstrates how economics can examine and analyze information systems so as to translate their contents into EDP-form.

This book gathers a selection of refereed papers presented at the 4th International Symposium and 26th National Conference of the Hellenic Operational Research Society. It highlights recent scientific advances in operational research and management science (OR/MS), with a focus on linking OR/MS with other areas of quantitative methods in a multidisciplinary framework. Topics covered include areas such as business process modeling, supply chain management, organization performance and strategy planning, revenue management, financial applications, production planning, metaheuristics, logistics, inventory systems, and energy systems.

This practical book describes the key operations of ARIS Toolset - the market leading Business Process Modelling Tool. Based on his experience of using ARIS in British Telecommunications plc, the author describes practical ways of using the tool. Using screen shots and plenty of practical examples, Rob Davis shows how ARIS can be used to model business processes. Throughout the book Davis provides readers with tips and short-cuts, enabling users to start

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modelling quickly and effectively. He also provides insights into the ARIS concepts, and tells readers about the benefits and trade-offs of using the tool in alternative ways. Unlike other books, this practical guide tackles issues found in real projects.

Computer-Aided Innovation (CAI) is emerging as a strategic domain of research and application to support enterprises throughout the overall innovation process. The 5.4 Working Group of IFIP aims at defining the scientific foundation of Computer Aided Innovation systems and at identifying state of the art and trends of CAI tools and methods. These Proceedings derive from the second Topical Session on Computer- Aided Innovation organized within the 20th World Computer Congress of IFIP. The goal of the Topical Session is to provide a survey of existing technologies and research activities in the field and to identify opportunities of integration of CAI with other PLM systems. According to the heterogeneous needs of innovation-related activities, the papers published in this volume are characterized by multidisciplinary contents and complementary perspectives and scopes. Such a richness of topics and disciplines will certainly contribute to the promotion of fruitful new collaborations and synergies within the IFIP community.

Gaetano Cascini th Florence, April 30 20 08 CAI Topical Session Organization The IFIP Topical Session on Computer-Aided Innovation (CAI) is a co-located conference organized under the auspices of the IFIP World Computer Congress (WCC) 2008 in Milano, Italy Gaetano Cascini CAI Program Committee Chair gaetano.cascini@unifi.it

ARIS (Architecture of Integrated Information Systems) is a unique and internationally renowned method for optimizing business processes and implementing application systems. This book enhances the proven ARIS concept by describing product flows and explaining how to classify modern software

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concepts. The importance of the link between business process organization and strategic management is stressed. Bridging the gap between the different approaches in business theory and information technology, the ARIS concept provides a full-circle approach-from the organizational design of business processes to IT implementation. With an emphasis on SAP R/3, real-world examples of standard software solutions illustrate these business process frameworks.

Business processes are among today's hottest topics in the science and practice of information systems. Business processes and workflow management systems attract a lot of attention from R&D professionals in software engineering, information systems, business-oriented computer science, and management sciences. The carefully reviewed chapters contributed to this state-of-the-art survey by internationally leading scientists consolidate work presented at various workshops on the topic organized by the editors of the book in the past few years. The book spans the whole spectrum of business process management ranging from theoretical aspects, conceptual models, and application scenarios to implementation issues. It will become a valuable source of reference and information for R&D professionals active in the fascinating interdisciplinary area of business process management and for ambitious practitioners.

"This book provides insights into state-of-the-art modeling languages and methods used for reference modeling. A reference model provides a blueprint for information systems development and analysis. Well-established reference models for industrial, retail and other industries are described"--Provided by publisher.

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