

Bpmn Method And Style 2nd Edition With Bpmn Implementer

This textbook provides organisational leadership with an understanding of business process management and its benefits to an organisation. It provides a practical framework, complete with a set of tools and techniques, to successfully implement business process management projects.

This book constitutes revised papers from the twelve International Workshops held at the 17th International Conference on Business Process Management, BPM 2019, in Vienna, Austria, in September 2019: The third International Workshop on Artificial Intelligence for Business Process Management (AI4BPM) The third International Workshop on Business Processes Meet Internet-of-Things (BP-Meet-IoT) The 15th International Workshop on Business Process Intelligence (BPI) The first International Workshop on Business Process Management in the era of Digital Innovation and Transformation (BPMInDIT) The 12th International Workshop on Social and Human Aspects of Business Process Management (BPMS2) The 7th International Workshop on Declarative, Decision and Hybrid approaches to processes (DEC2H) The

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second International Workshop on Methods for Interpretation of Industrial Event Logs (MIEL) The first International Workshop on Process Management in Digital Production (PM-DiPro) The second International Workshop on Process-Oriented Data Science for Healthcare (PODS4H) The fourth International Workshop on Process Querying (PQ) The second International Workshop on Security and Privacy-enhanced Business Process Management (SPBP) The first International Workshop on the Value and Quality of Enterprise Modelling (VEnMo) Each of the workshops discussed research still in progress and focused on aspects of business process management, either a particular technical aspect or a particular application domain. These proceedings present the work that was discussed during the workshops.

A business organization, like a human body, is only as effective as its various processes. Pretty obvious, right? Yet, as V. Daniel Hunt demonstrates in this groundbreaking book, the failure to appreciate this obvious fact is the reason most reengineering schemes fail. Managers whose job it is to improve company performance, like physicians who work to improve patient health, must develop a clear picture of how each process fits

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into the overall organizational structure; how it ought to function; and how well it is performing at any given moment; before they can form a diagnosis or devise a treatment strategy. Fortunately, a powerful new analytical tool that has emerged in recent years helps you to do all of that and much more. Developed at General Electric, process mapping has been implemented in companies around the globe, and the results have been simply astonishing. Now find out how to make this breakthrough reengineering technology work for your organization in Process Mapping. The first and only hands-on guide of its kind, Process Mapping arms you with a full complement of state-of-the-art tools and techniques for assessing existing business processes and developing a detailed road map for ongoing change and improvement. Internationally known management consultant and bestselling author V. Daniel Hunt guides you step-by-step through the entire process. He helps you assess the need for process reengineering in your organization and determine whether or not a process map is what you need. He shows you how to create a process mapping team and helps you select the best-buy process mapping tools for the job. He explains how to gather vital information

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about your business processes via focused interviews and other interview techniques, and how to use this data in implementing process mapping. He also offers expert advice on how to apply your process map to significantly improve business functions and bottom-line performance. Hunt draws upon the experiences of companies around the world whose process mapping success stories will be a source of inspiration and instruction. You'll find out just how process mapping was put to use--and the results it achieved--at General Electric, IBM, NASA, Tandy Electronics, Shawmut National Bank, Fluor Daniel, Exxon, and other leading product and service firms. Find out all about today's most important new management tool and how to put it to work for continuous improvement in your organization in *Process Mapping*. The first and only hands-on guide to a powerful new process mapping tool The most important new process improvement tool to come along in more than a decade, process mapping enables managers to easily identify and assess the various business processes that make up their organizations and to develop a road map for continued performance improvement. Now find out how to make this breakthrough management tool work in your organization by applying *Process Mapping*.

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V. Daniel Hunt, the bestselling author of Reengineering, Quality in America, and The Survival Factor, guides you step-by-step through the entire process. He gives you all the proven process mapping tools and techniques you need to:

- * Assess the need for process improvement in your company *
- Decide if process mapping is right for you *
- * Create a process mapping team *
- Select the best process mapping software tools for the job *
- Collect vital information about business processes *
- Use the data to build your own process map *
- Use your process map to significantly improve bottom-line business performance

Hunt also provides detailed case studies of product and service companies around the globe that have discovered the value of process mapping. You'll find out how General Electric, IBM, NASA, Tandy Electronics, Shawmut National Bank, Fluor Daniel, Exxon, and other leading companies achieved stunning results when they made process mapping part of their business improvement efforts.

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

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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 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.

Essential Business Process Modeling
Microservices from Theory to Practice:

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Creating Applications in IBM Bluemix Using the Microservices Approach

Business Process Change

Empirical Studies on the Development of Executable Business Processes

Enterprise Architecture for Integration

Methods, Concepts, Case Studies and

Standards in Business Process Modeling

Notation (Bpmn)

Body of Knowledge from Process Modeling to BPM

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 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

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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, 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 Creating business process models that can be shared effectively across the business - and between business and IT - demands more than a digest of BPMN shapes and symbols. It requires a step-by-step methodology for going from a blank page to a complete process diagram. It also requires consistent application of a modeling style, so that the modeler's meaning is clear from the diagram itself. Author Bruce Silver explains not only the meaning and proper usage of the entire BPMN 2.0 palette, but calls out the working subset that you really need to know. He also reveals the hidden assumptions of core concepts left unexplained in the spec, the key to BPMN's deeper meaning. The book addresses BPMN at three levels, with primary focus on the first two. Level 1, or descriptive BPMN,

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uses a basic working set of shapes and symbols to meet the needs of business users doing process mapping. Level 2, or analytical BPMN, is aimed at business analysts and architects. It takes advantage of BPMN's expressiveness for detailing event and exception handling, key to analyzing and improving process performance and quality. Level 3, or executable BPMN, is brand new in BPMN 2.0. Here the XML underneath the diagram shapes becomes an executable design can be deployed to a process engine to automate the process. The method and style detailed in the book aligns these three levels, facilitating business-IT collaboration throughout the process lifecycle. Inside the book you'll find discussions, illustrated with over 100 examples, about: The questions BPMN asks, and does not ask The meaning of basic concepts like starting and completing, sending and receiving, waiting and listening Subprocesses and hierarchical modeling style The five basic steps in creating Level 1 models Event and exception-handling patterns Branching and merging patterns Level 2 modeling method Elements of BPMN style: element usage and diagram composition

This book discusses how model-based approaches can improve the daily practice of software professionals. This is known as Model-Driven Software Engineering (MDSE) or, simply, Model-Driven Engineering (MDE). MDSE practices have proved to increase efficiency and effectiveness in software development, as demonstrated by various quantitative and qualitative studies. MDSE adoption in the software industry is foreseen to grow exponentially in the near future, e.g., due to the convergence of software development and business analysis. The aim of this book is to provide you with an agile and flexible tool to introduce you to the MDSE world, thus allowing you to quickly understand its basic principles and techniques and to

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choose the right set of MDSE instruments for your needs so that you can start to benefit from MDSE right away. The book is organized into two main parts. The first part discusses the foundations of MDSE in terms of basic concepts (i.e., models and transformations), driving principles, application scenarios, and current standards, like the well-known MDA initiative proposed by OMG (Object Management Group) as well as the practices on how to integrate MDSE in existing development processes. The second part deals with the technical aspects of MDSE, spanning from the basics on when and how to build a domain-specific modeling language, to the description of Model-to-Text and Model-to-Model transformations, and the tools that support the management of MDSE projects. The second edition of the book features: a set of completely new topics, including: full example of the creation of a new modeling language (IFML), discussion of modeling issues and approaches in specific domains, like business process modeling, user interaction modeling, and enterprise architecture complete revision of examples, figures, and text, for improving readability, understandability, and coherence better formulation of definitions, dependencies between concepts and ideas addition of a complete index of book content In addition to the contents of the book, more resources are provided on the book's website <http://www.mdse-book.com>, including the examples presented in the book.

Do you ever think of how you learn--reading, watching, doing? Maybe you use all three. Many of us go through life unaware of how we learn or acquire a skill set; we just learn it. We all have the capability to learn. It is from that perspective and with a passion for business process modeling with Business Process Modeling and Notation (BPMN) that Dr. Joshua Fuehrer and Joseph Butchko set out

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to write a book that will provide an understanding of BPMN while engaging in the adult learning process for acquiring knowledge. Learning BPMN 2.0 is intended to bridge the gap between theory and practice. While the focus is on learning BPMN, this book will also teach foundational concepts for business process improvement, while maintaining a balance between academia and real-world examples. Through research, anecdotal evidence, and a collection of various resources and videos Learning BPMN 2.0 will help you grasp ideas and transform information in innovative ways. In the end you will have a greater understanding on how to apply BPMN in a way that communicates your organizations business and technical process models.

BPM 2019 International Workshops, Vienna, Austria, September 1-6, 2019, Revised Selected Papers

BPMN Modeling and Reference Guide

A Business Practitioner's Guide to Decision Modeling

Real-life BPMN

Documenting Software Architectures

Process Mining

Conversation Patterns

Business-oriented guide to the new Decision Model and Notation standard, completely revised and updated to DMN 1.2. Many practical examples, 171 tables and diagrams.

This is the improved 4th edition of the very successful book "Real-Life BPMN" with excellent reviews on Amazon.com (don't forget to check reviews of the former editions). In this book you will learn how to:

Model processes with Business Process Model and Notation (BPMN) Successfully apply BPMN

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to real-world problems Use a practical approach to workflow automation with BPMN 2.0 Align business, development and operations Understand how microservices impact business processes Implement BPMN across your organization The definitive guide for process designers: provides an overview of business process notation, presents implementation guidance and best practices, and offers useful tips on what works and what doesn't. Truth be told, there are several BPMN books on the market. Some of them are quite good, so why should you care about this one? This book distills the experience the authors have accumulated while running Camunda, a company that delivers the leading open source workflow and decision automation platform. Camunda helped to define the BPMN specification, and during the past 15 years, they have applied BPMN to thousands of customer use cases. These were big businesses, small companies, and public institutions. Now you can benefit from this practical experience. This book also gives an introduction to DMN for decision management, which you might know as business rules management (BRM). This book is also available in German and Spanish. Note: The resolution of all images in the ebook has

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been increased, starting with the third edition, to improve the digital reading experience. Business Process Management (BPM) has become one of the most widely used approaches for the design of modern organizational and information systems. The conscious treatment of business processes as significant corporate assets has facilitated substantial improvements in organizational performance but is also used to ensure the conformance of corporate activities. This Handbook presents in two volumes the contemporary body of knowledge as articulated by the world's leading BPM thought leaders. This first volume focuses on arriving at a sound definition of BPM approaches and examines BPM methods and process-aware information systems. As such, it provides guidance for the integration of BPM into corporate methodologies and information systems. Each chapter has been contributed by leading international experts. Selected case studies complement their views and lead to a summary of BPM expertise that is unique in its coverage of the most critical success factors of BPM. The second edition of this handbook has been significantly revised and extended. Each chapter has been updated to reflect the most current developments. This

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includes in particular new technologies such as in-memory data and process management, social media and networks. A further focus of this revised and extended edition is on the actual deployment of the proposed theoretical concepts. This volume includes a number of entire new chapters from some of the world's leading experts in the domain of BPM.

Authored by members of WfMC, OMG and other key participants in the development of BPMN 2.0, the BPMN 2.0 Handbook Second Edition assembles industry thought-leaders and international experts. Following the ground-breaking body of work in the BPMN 2.0 Handbook First Edition this book is greatly expanded with substantial new content and chapters updated to the latest advances in this important standard. The authors examine a variety of aspects that start with an introduction of what's new and updated in BPMN 2.0, and look closely at interchange, best practices, analytics, conformance, optimization, choreography and more from a technical perspective. The authors also address the business imperative for widespread adoption of the standard by examining best practice guidelines, BPMN business strategy and the human interface including real-life case studies. Other critical

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chapters tackle the practical aspects of making a BPMN model executable and the basic timeline analysis of a BPMN model. This book is for business people who want to understand the how and why of BPMN 2.0 in simple non-jargon terms and the strategy and motivation for its adoption within the corporation. It is also for the technical practitioner seeking current insights into the BPMN 2.0 standard and how to take advantage of its powerful capabilities. Guide to BPMN 2.0 Technical Aspects * Admission Process Optimization with BPMN and OSCO * Analytics for Performance Optimization of BPMN2.0 Business Processes * Bespoke Enterprise Architecture: Tailoring BPMN 2.0 using Conformance Classes * BPMN 2.0 Interchange * BPMN Extension for Social BPM * Collaborative Activities Inside Pools * Making a BPMN 2.0 Model Executable * New Capabilities for Interaction Modeling in BPMN 2 * New Capabilities for Process Modeling in BPMN 2 * Refactoring BPMN Models * Simulation for Business Process Management Guide to the Business Imperative for BPMN * Best Practice Guidelines for BPMN 2.0 * BPMN and Business Strategy: One Size Does Not Fit All * BPMN Used by Business Professionals: An In-depth Reflection on BPM with BPMN by the

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Swiss FOITT * Business Process Integration in a Defense Product-focused Company * Human-Readable BPMN Diagrams * Making BPMN 2.0 Fit for Full Business Use * Multi-faceted Business Process Modeling Appendix includes BPMN Supporters list, XPD L 2.2 Guide, BPMN Glossary, index and more.

The Definitive Guide

The Practitioner's Guide to Decision Modeling with Business Rules

BPMN 2.0 Handbook First Edition

MITRE Systems Engineering Guide
Second Edition

Business Process Management Design Guide:
Using IBM Business Process Manager
Concepts, Languages, Architectures

BPMN Method and Style With BPMN Implementer's Guide

[Special Note: If you ordered in early September, please contact www.processmodelingadvisor.com to receive your FREE final-edited copy directly from the author.] Many business process models don't meet expectations. Why? Business analysts, managers, productivity improvement specialists, and consultants who develop process models by trial and error are prone to fail. This is THE only start-to-finish how-to guide for consistently producing high-quality business models. It shows you how to: - Establish or improve your business process modeling competence using the

6-step Universal Process Modeling Procedure. - Perceive, define/normalize any business process or activity using the 4-part Universal Business Process Definition. - Never miss the 3 Basic Business Process Flow elements. - Efficiently elicit process model content using razor-sharp elicitation agendas. - Elicit and model the 10 most common logical process model refinements. - Validate any process model's quality using 5 Universal Process Model Quality Checklists. - Use any process modeling tool at-hand, whether it be white board or process modeling software. Learn more at www.ProcessModelingAdvisor.com

A comprehensive guide to well-known workflow patterns: recurrent, generic business process constructs, described from the control-flow, data, and resource perspectives. The study of business processes has emerged as a highly effective approach to coordinating an organization's complex service- and knowledge-based activities. The growing field of business process management (BPM) focuses on methods and tools for designing, enacting, and analyzing business processes. This volume offers a definitive guide to the use of patterns, which synthesize the wide range of approaches to modeling business processes. It provides a unique and comprehensive introduction to the well-known workflow patterns collection—recurrent, generic constructs describing common business process modeling and execution scenarios, presented in the form of problem-solution

dialectics. The underlying principles of the patterns approach ensure that they are independent of any specific enabling technology, representational formalism, or modeling approach, and thus broadly applicable across the business process modeling and business process technology domains. The authors, drawing on extensive research done by the Workflow Patterns Initiative, offer a detailed introduction to the fundamentals of business process modeling and management; describe three major pattern catalogs, presented from control-flow, data, and resource perspectives; and survey related BPM patterns. The book, a companion to the authoritative Workflow Patterns website, will be an essential resource for both academics and practitioners working in business process modeling and business process management. Case management is a branch of business process management dealing with unstructured processes. CMMN is a business-oriented language for case models, both descriptive and executable. This book shows how to use CMMN to create case models in which the logic is both clear from the printed diagrams and executable on a business automation platform.

Workflow Patterns
Real-Life BPMN

Introduction to the Standard for Business Process Modeling
Microservices

Handbook on Business Process Management 1 Science and Engineering

This book collects essential research on the practical application of executable business process modeling in real-world projects, i.e., model-driven solutions for the support and automation of digital business processes that are created using languages such as BPEL or BPMN. It mainly focuses on empirical research, but also includes an up-to-date cross-section of case studies in order to assess examples of BPM 's practical impact in the industry. On the one hand, executable models are formally and precisely defined so that computers can interpret and execute them; on the other, they are visualized so that humans can describe, document and optimize business processes at a higher level of abstraction than with traditional textual programming languages. While these important research areas have long been separated from one another, this book is an attempt at cross-fertilization, driven by the insight that business processes are the software behind today 's digital organizations, and that achieving a precise representation of such processes is key to their reliable execution. Consequently, the book presents various case studies and experiments that investigate questions of interest to both academia (e.g., identifying challenges for which no solution exists; sharing new insights into how existing approaches are actually used) and industry (e.g., guidelines on using certain technologies and on modeling comprehensible and executable processes). Both researchers and practitioners

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will benefit from the presentation of how concepts are transformed into working solutions. The studies are presented in a structured manner and with sufficient rigor to be considered empirical research, further enhancing the book 's value for the research community, while practitioners will find concrete guidance on making the right decisions for their projects.

Microservices is an architectural style in which large, complex software applications are composed of one or more smaller services. Each of these microservices focuses on completing one task that represents a small business capability. These microservices can be developed in any programming language. They communicate with each other using language-neutral protocols, such as Representational State Transfer (REST), or messaging applications, such as IBM® MQ Light. This IBM Redbooks® publication gives a broad understanding of this increasingly popular architectural style, and provides some real-life examples of how you can develop applications using the microservices approach with IBM Bluemix™. The source code for all of these sample scenarios can be found on GitHub (<https://github.com/>). The book also presents some case studies from IBM products. We explain the architectural decisions made, our experiences, and lessons learned when redesigning these products using the microservices approach. Information technology (IT) professionals interested in learning about microservices and how to develop or redesign an application in Bluemix using microservices

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can benefit from this book.

This book constitutes revised papers from the eleven International Workshops held at the 15th International Conference on Business Process Management, BPM 2017, in Barcelona, Spain, in September 2017: BPAI 2017 – 1st International Workshop on Business Process Innovation with Artificial Intelligence; BPI 2017 – 13th International Workshop on Business Process Intelligence; BP-Meet-IoT 2017 – 1st International Workshop on Ubiquitous Business Processes Meeting Internet-of-Things; BPMS2 2017 – 10th Workshop on Social and Human Aspects of Business Process Management; CBPM 2017 – 1st International Workshop on Cognitive Business Process Management; CCABPM 2017 – 1st International Workshop on Cross-cutting Aspects of Business Process Modeling; DeHMiMoP 2017 – 5th International Workshop on Declarative/Decision/Hybrid Mining & Modeling for Business Processes; QD-PA 2017 – 1st International Workshop on Quality Data for Process Analytics; REBPM 2017 – 3rd International Workshop on Interrelations between Requirements Engineering and Business Process Management; SPBP 2017 – 1st Workshop on Security and Privacy-enhanced Business Process Management; TAProViz-PQ-IWPE 2017 – Joint International BPM 2017 Workshops on Theory and Application of Visualizations and Human-centric Aspects in Processes (TAProViz'17), Process Querying (PQ'17) and Process Engineering (IWPE17). The 44 full and 11 short papers presented in this volume

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were carefully reviewed and selected from 99 submissions. This is the second edition of Wil van der Aalst ' s seminal book on process mining, which now discusses the field also in the broader context of data science and big data approaches. It includes several additions and updates, e.g. on inductive mining techniques, the notion of alignments, a considerably expanded section on software tools and a completely new chapter of process mining in the large. It is self-contained, while at the same time covering the entire process-mining spectrum from process discovery to predictive analytics. After a general introduction to data science and process mining in Part I, Part II provides the basics of business process modeling and data mining necessary to understand the remainder of the book. Next, Part III focuses on process discovery as the most important process mining task, while Part IV moves beyond discovering the control flow of processes, highlighting conformance checking, and organizational and time perspectives. Part V offers a guide to successfully applying process mining in practice, including an introduction to the widely used open-source tool ProM and several commercial products. Lastly, Part VI takes a step back, reflecting on the material presented and the key open challenges. Overall, this book provides a comprehensive overview of the state of the art in process mining. It is intended for business process analysts, business consultants, process managers, graduate students, and BPM researchers.

Business Process Management - Fundamental Level

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Bpmn 2.0 Handbook Second Edition

Dmn Method and Style

A Practical Guide for Today's Adult Learners

Enterprise Integration Patterns, Vol 2

A Brief Guide to the Systems Modeling Language

Real-Life BPMN (4th Edition)

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 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

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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 book describes in contributions by scientists and practitioners the development of scientific concepts, technologies, engineering techniques and tools for a service-based society. The focus is on microservices, i.e cohesive, independent processes deployed in isolation and equipped with dedicated memory persistence tools, which interact via messages. The book is structured in six parts. Part 1 “Opening” analyzes the new (and old) challenges including service design and specification, data integrity, and consistency management and provides the introductory information needed to successfully digest the remaining parts. Part 2 “Migration” discusses the issue of migration from monoliths to microservices and their loosely coupled architecture. Part 3 “Modeling” introduces a catalog and a taxonomy of the most common microservices anti-patterns and identifies common problems. It also explains the concept of RESTful conversations and presents insights from studying and developing two further modeling approaches. Next , Part 4 is dedicated to various aspects of “Development and Deployment”. Part 5 then covers “Applications” of microservices, presenting case studies from Industry 4.0, Netflix, and customized SaaS examples. Eventually, Part 6 focuses on “Education” and reports on experiences made in special programs, both at academic level as a master program course and for practitioners in an industrial training. As only a joint effort between academia and industry can lead to the release of modern paradigm-based programming languages,

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and subsequently to the deployment of robust and scalable software systems, the book mainly targets researchers in academia and industry who develop tools and applications for microservices.

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 chapter on business decision modelling, covering the Decision Model and Notation (DMN) standard;

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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. Business Process Change, 3rd Edition provides a balanced view of the field of business process change. Bestselling author Paul Harmon offers concepts, methods, cases for all aspects and phases of successful business process improvement. Updated and added for this edition is new material on the development of business models and business process architecture development, on integrating decision management models and business rules, on service processes and on dynamic case management, and on integrating various approaches in a broad business process management approach. New to this edition: How to develop business models and business process architecture How to integrate decision management models and business rules New material on service processes and on dynamic case management Learn to integrate various approaches in a broad business process management approach Extensive revision and update addresses Business Process Management Systems, and the integration of process redesign and Six Sigma Learn how all the different process elements fit together in this best first book on business process, now completely updated Tailor the presented methodology, which is based on best practices, to your organization's specific needs Understand the human aspects of process redesign Benefit from all new detailed case studies showing how these methods are implemented

BPMN 2.0

Views and Beyond

How to Reengineer Your Business Processes

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Using BPMN, CMMN and DMN to Analyze, Improve, and Automate Processes in Your Company

Learning BPMN 2.0

BPMN Method and Style

Happiness Found and Feigned from Greek Antiquity to Present

Discover BIM: A better way to build better buildings
Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take

full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Business Process Modeling Notation (BPMN) is a standard, graphical modeling representation for business processes. It provides an easy to use, flow-charting notation that is independent of the implementation environment. An underlying rigor supports the notation-facilitating the translation of business level models into executable models that BPM Suites and workflow engines can understand. Over recent years, BPMN has been widely adopted by Business Process Management (BPM) related products-both the Business Process Analysis and Modeling tool vendors and the BPM Suites. This book is for business users and process modeling practitioners alike. Part I provides an easily understood introduction to the key components of BPMN (put forward in a user-friendly fashion). Starting off with simple models, it progresses into more sophisticated patterns. Exercises help cement comprehension and understanding (with answers available online). Part II provides a detailed and authoritative reference on the precise semantics and capabilities of the standard.

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 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.

Business Decision Management is a technology-assisted practice of defining, analyzing, and maintaining the decision logic that drives interactions with customers, suppliers, and employees. For many years, subject matter experts created text-based "requirements" and handed them over to programmers for implementation on a Business Rule Engine. The Decision Model and Notation (DMN) now offers a better way: decision logic precisely defined and maintained by subject matter experts themselves, using business-friendly graphical models that can be automatically validated for completeness and consistency. Since DMN is an industry standard, the meaning of a decision model does not depend on the tool used to create it or some consultant's methodology. It's defined by a specification. And best of all, DMN models are directly executable, so What You See Is What You Get. "DMN Method and Style" is your guide to the new standard and to the features and benefits of Business Decision Management. It explains not only the shapes and symbols used to describe end-to-end decision logic in a Decision Requirements Diagram (DRD), but how to properly decompose the top-level decision into a network of supporting decisions and input data. It also shows you how to define the detailed logic of each decision in the diagram

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using decision tables, literal expressions, and reusable logic blocks called business knowledge models. Like its predecessor "BPMN Method and Style," the book suggests best practices, in the form of style rules and a modeling methodology, for capturing the end-to-end decision logic in a way that is complete, consistent, and clear from the printed DRD and tabular expressions alone.

Foreword by Bruce Silver

A Practical Guide to Case Management Modeling for Documentation and Execution

Fundamentals of Business Process Management

BIM Handbook

Understanding and Using BPMN

The Basics of Process Mapping, 2nd Edition

CMMN Method and Style

The bestselling first edition of this influential resource has been incorporated into the curriculum at forward thinking colleges and universities, a leading vocational technical institute, many in-house corporate continuous improvement approaches, and the United Nations' headquarters. Providing a complete and accessible introduction to process maps, *The Basics of Process Mapping, Second Edition* raises the bar on what constitutes the basics. Thoroughly revised and updated to keep pace with recent developments, it explains how relationship maps, cross-functional process maps (swimlane diagrams), and flowcharts can be used as a set to provide different views of work. *New in the Second Edition: Four new chapters and*

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75 new graphics An introduction to the concepts of flow and waste and how both appear in knowledge work or business processes A set of measures for flow and waste A discussion of problematic features of knowledge work and business processes that act as barriers to flow Seven principles and 29 guidelines for improving the flow of knowledge work A detailed (actual) case study that shows how one organization applied the principles and guidelines to reduce lead time from an average of 28 days to 4 days Unlike "tool books" or "pocket guides" that focus on discrete tools in isolation, this text use a single comprehensive service work example that integrates all three maps, and illustrates the insights they provide when applied as a set. It contains how to procedures for creating each type of map, and includes clear-cut guidance for determining when each type of map is most appropriate. The well-rounded understanding provided in these pages will allow readers to effectively apply all three types of maps to make work visible at the organization, process, and job/performer levels. *The Seven principles are integrated into Version 3 of the body of knowledge used for Lean certification by the ASQ/AME/SME/SHINGO Lean Alliance. This is the first publication of those principles and guidelines. This is the improved 2nd edition of the very successfull book "Real-Life BPMN" with excellent*

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reviews on Amazon.com (don't forget to check reviews of the 1st edition). It is about Business Process Management (BPM) and Business Process Model and Notation (BPMN 2.0). Truth be told, there are several BPMN books on the market. Some of them are quite good, so why should you care about this one? This book distills the experience the authors accumulated while running camunda, a consulting company that specializes in BPM. camunda helped to define the BPMN specification, and during the past five years, they have applied BPMN in over 250 customer engagements. These were big businesses, small companies, and public institutions. Now you can benefit from this practical experience. Topics covered: The basics of modeling processes with Business Process Model and Notation (BPMN 2.0) Methods to apply BPMN successfully to real-world problems A practical approach for automating processes with BPMN 2.0 The alignment of business and IT as an attainable goal Advice on introducing BPMN across your company This book explains the notation, of course, but it also delves into the kinds of challenges that process designers face every day. It talks about pitfalls to avoid. It gives dos and don'ts. There are guidelines and best practices. This second edition in English is based on the successful fourth German edition, which, according to amazon.de, it is still the highest-ranked book on

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BPMN in German. The number of five-star ratings awarded by readers speaks volumes. Also available in Spanish.

Ten years ago, groupware bundled with email and calendar applications helped track the flow of work from person to person within an organization.

Workflow in today's enterprise means more monitoring and orchestrating massive systems. A new technology called Business Process

Management, or BPM, helps software architects and developers design, code, run, administer, and monitor complex network-based business

processes BPM replaces those sketchy flowchart diagrams that business analysts draw on whiteboards with a precise model that uses

standard graphical and XML representations, and an architecture that allows it converse with other services, systems, and users. Sound complicated?

It is. But it's downright frustrating when you have to search the Web for every little piece of information vital to the process. Essential Business

Process Modeling gathers all the concepts, design, architecture, and standard specifications of BPM into one concise book, and offers hands-on

examples that illustrate BPM's approach to process notation, execution, administration and monitoring. Author Mike Havey demonstrates standard ways to

code rigorous processes that are centerpieces of a service-oriented architecture (SOA), which defines

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how networks interact so that one can perform a service for the other. His book also shows how BPM complements enterprise application integration (EAI), a method for moving from older applications to new ones, and Enterprise Service BUS for integrating different web services, messaging, and XML technologies into a single network. BPM, he says, is to this collection of services what a conductor is to musicians in an orchestra: it coordinates their actions in the performance of a larger composition. Essential Business Process Modeling teaches you how to develop examples of process-oriented applications using free tools that can be run on an average PC or laptop. You'll also learn about BPM design patterns and best practices, as well as some underlying theory. The best way to monitor processes within an enterprise is with BPM, and the best way to navigate BPM is with this valuable book.

The Systems Modeling Language (SysML) extends UML with powerful systems engineering capabilities for modeling a wider spectrum of systems and capturing all aspects of a system's design. SysML Distilled is the first clear, concise guide for everyone who wants to start creating effective SysML models. (Drawing on his pioneering experience at Lockheed Martin and NASA, Lenny Delligatti illuminates SysML's core components and provides practical advice to help you create good

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models and good designs. Delligatti begins with an easy-to-understand overview of Model-Based Systems Engineering (MBSE) and an explanation of how SysML enables effective system specification, analysis, design, optimization, verification, and validation. Next, he shows how to use all nine types of SysML diagrams, even if you have no previous experience with modeling languages. A case study running through the text demonstrates the use of SysML in modeling a complex, real-world sociotechnical system. Modeled after Martin Fowler's classic UML Distilled, Delligatti's indispensable guide quickly teaches you what you need to know to get started and helps you deepen your knowledge incrementally as the need arises. Like SysML itself, the book is method independent and is designed to support whatever processes, procedures, and tools you already use. Coverage Includes Why SysML was created and the business case for using it Quickly putting SysML to practical use What to know before you start a SysML modeling project Essential concepts that apply to all SysML diagrams SysML diagram elements and relationships Diagramming block definitions, internal structures, use cases, activities, interactions, state machines, constraints, requirements, and packages Using allocations to define mappings among elements across a model SysML notation tables, version changes, and

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sources for more information

Introduction, Methods, and Information Systems

Process Mapping

The Practical Guide to High-quality Business

Process Models Using Bpmn

Business Process Management Workshops

Using BPMN 2.0 to Analyze, Improve, and Automate Processes in Your Company

Includes an Introduction to DMN

Universal Process Modeling Procedure

BPMN 2.0 is the industry standard diagramming language for business process models. The meaning of the business process diagram is the same, regardless of the tool used to create it. But creating models that are correct, complete, and clear demands more than a dictionary of BPMN shapes and symbols. It also requires a methodology for translating process logic consistently into the diagram. And it requires a measure of modeling style as well, conventions that ensure that the process logic is unambiguous from the diagram by itself. In short,

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"good BPMN" requires a disciplined approach called "method and style." In this book, Bruce Silver explains which BPMN elements process modelers need to understand, in two levels, including exactly where and how to use each element. Level 1 (the Descriptive modeling subclass of BPMN 2.0) is a palette of shapes and symbols largely carried over from traditional flowcharting. Level 2 (the Analytic subclass) expands the palette to be able to describe event-triggered behavior, critical to modeling exception handling. The book explains the real meaning of BPMN's most basic concepts - like activity, process, and end state - essential to using the language correctly, and provides a step-by-step methodology for going from a blank page to a complete end-to-end BPMN model, developed from the top down in a hierarchical structure. From the top-level diagram you can see on a single page exactly how the process starts, its possible end states, what the instance represents, and communications with the Customer, service providers, and other processes.

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From there you can drill down to see the details of any part of the process. This is the improved 3rd edition of the very successful book "Real-Life BPMN" with excellent reviews on Amazon.com (don't forget to check reviews of the 1st and 2nd edition). It is about business process management (BPM) and Business Process Model and Notation (BPMN 2.0). Truth be told, there are several BPMN books on the market. Some of them are quite good, so why should you care about this one? This book distills the experience the authors accumulated while running Camunda, a consulting company that specializes in BPM. Camunda helped to define the BPMN specification, and during the past ten years, they have applied BPMN in over 1000 customer engagements. These were big businesses, small companies, and public institutions. Now you can benefit from this practical experience. Topics covered: The basics of modeling processes with Business Process Model and Notation (BPMN 2.0) Methods to apply BPMN successfully to real-world problems A practical approach for automating processes with BPMN 2.0 The

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OCEB 2 Certification Guide, Second Edition has been updated to cover the new version 2 of the BPMN standard and delivers expert insight into BPM from one of the developers of the OCEB Fundamental exam, offering full coverage of the fundamental exam

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material for both the business and technical tracks to further certification. The first study guide prepares candidates to take—and pass—the OCEB Fundamental exam, explaining and building on basic concepts, focusing on key areas, and testing knowledge of all critical topics with sample questions and detailed answers. Suitable for practitioners, and those newer to the field, this book provides a solid grounding in business process management based on the authors' own extensive BPM consulting experiences. Completely updated, with the latest material needed to pass the OCEB-2 and BPMN Certification Includes sample test questions in each chapter, with answers in the appendix Expert authors provide a solid overview of business process management (BPM)

*DMN Method and Style. 2nd Edition
Model-Driven Software Engineering in Practice*

A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers

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*Rapid Delivery Methods and Technologies
With BPMN Implementer's Guide
BPM 2017 International Workshops,
Barcelona, Spain, September 10-11,
2017, Revised Papers
OCEB 2 Certification Guide*

The enterprise architecture methods of enterprise engineering as described in this book enable business experts and IT experts together to identify reusable business activities, processes and integrated databases. Three main sections cover enterprise architecture for managers, methodology, and integration technologies. Software architecture—the conceptual glue that holds every phase of a project together for its many stakeholders—is widely recognized as a critical element in modern software development. Practitioners have increasingly discovered that close attention to a software system's architecture pays valuable dividends. Without an architecture that is appropriate for the problem being solved, a project will stumble along or, most likely, fail. Even with a superb architecture, if that architecture is not well understood or well communicated the project is unlikely to succeed. Documenting Software Architectures, Second Edition, provides the most complete and current guidance, independent of language or notation, on how to capture an architecture in a commonly understandable form. Drawing on their extensive experience, the authors first help you decide what information to document, and then, with guidelines and examples (in various notations, including UML), show you how to express an architecture so that others can successfully build, use, and maintain a system from it. The book features rules for sound documentation, the

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goals and strategies of documentation, architectural views and styles, documentation for software interfaces and software behavior, and templates for capturing and organizing information to generate a coherent package. New and improved in this second edition: Coverage of architectural styles such as service-oriented architectures, multi-tier architectures, and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale, reflecting best industrial practices Improved templates, reflecting years of use and feedback, and more documentation layout options A new, comprehensive example (available online), featuring documentation of a Web-based service-oriented system Reference guides for three important architecture documentation languages: UML, AADL, and SysML In Philosophy as Frustration: Happiness Found and Feigned from Greek Antiquity to Present Bruce Silver argues that traditional philosophical views of happiness, as well as recent psychological theories of happiness, are at odds with themselves and with important accounts of a truly happy life.

The Complete Business Process Handbook

SysML Distilled

Data Science in Action

Business Process Management

Philosophy as Frustration