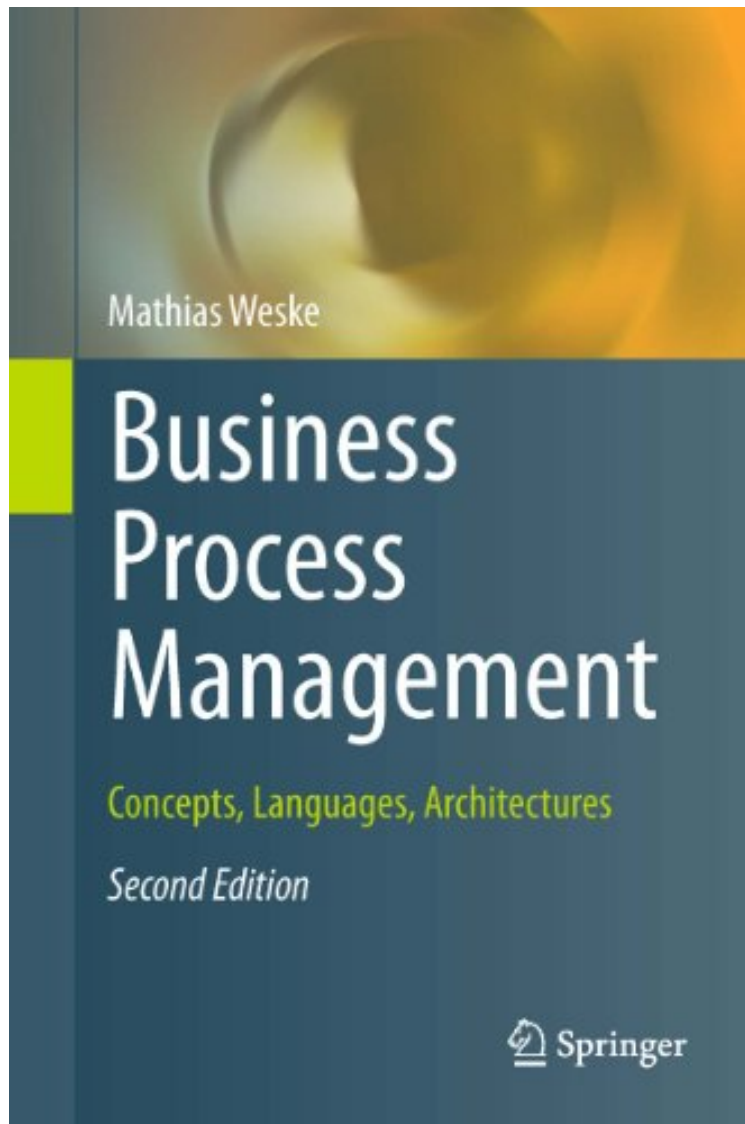


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Business Process Management: Concepts, Languages, Architectures

Mathias Weske

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Aalst, and others in that group, and so Aalst's book "Workflow Management" co-written by Kees van Hee, fits nicely inside this one. Which is not to say that it is needed, the work stands alone as a definitive source -- perhaps a classic, when those general business folk become a bit more foundational minded. 0 of 30 people found the following review helpful. everything ok By Michele Cervini everything ok. with standard shipping the book took about three week to come to Italy (from Phoenix).

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 2nd edition contains major updates on BPMN Version 2 process orchestration and process choreographies, and the chapter on BPM methodologies has been completely rewritten. The accompanying website www.bpm-book.com contains further information and additional teaching material.

"This book presents comprehensive and updated material for anyone interested in getting to know the vast field of BPM. With its excellent organization and use of many figures, it can also be an excellent choice as a text book on BPM." - Amit Sheth, LexisNexis Ohio Eminent Scholar, Wright State University, Dayton, OH, USA "An extremely well rounded and comprehensive discussion of the subject of business process management" - Heiko Ludwig, IBM Research, San Jose, CA, USA "A superb textbook for students in both computer science and business administration. Moreover, it is also very useful for practitioners since it provides a comprehensive coverage of BPM independently of industry hypes around workflow management, business process management, and service-oriented architectures." - from the Foreword by Wil van der Aalst, Eindhoven University of Technology, The Netherlands "Business process management (BPM) is a topic more pressing than ever even 15 years after its inception. Mathias Weske takes an up-to-date, fresh, and comprehensive look at the subject and connects a number of areas to which BPM applies, from a conceptual as well as a technical and an application-oriented point of view. A definitive must-read for anybody studying or working in this area." - Gottfried Vossen, European Research Center for Information Systems, University of Muenster "This book presents comprehensive and updated material for anyone interested in getting to know the vast field of BPM. With its excellent organization and use of many figures, it can also be an excellent choice as a text book on BPM." (Amit Sheth, LexisNexis Ohio Eminent Scholar, Wright State University, Dayton, OH, USA) "An extremely well rounded and comprehensive discussion of the subject of business process management" (Heiko Ludwig, IBM Research, San Jose, CA, USA) "A superb textbook for students in both computer science and business administration. Moreover, it is also very useful for practitioners since it provides a comprehensive coverage of BPM independently of industry hypes around workflow management, business process management, and service-oriented architectures." (from the Foreword by Wil van der Aalst, Eindhoven University of Technology, The Netherlands) "Business process management (BPM) is a topic more pressing than ever even 15 years after its inception. Mathias Weske takes an up-to-date, fresh, and comprehensive look at the subject and connects a number of areas to which BPM applies, from a conceptual as well as a technical and an application-oriented point of view. A definitive must-read for anybody studying or working in this area." (Gottfried Vossen, European Research Center for Information Systems, University of Muenster) From the Back Cover 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 for experts to handle, by contrast computer scientists often consider business goals and organizational regulations as terms that do not deserve much thought but require the appropriate level of abstraction. Mathias Weske argues that the communities involved need to share a common understanding of the principles underlying business process management. To this end, he develops an overall picture that describes core BPM concepts and technologies and explains their relationships. This picture covers high-level business aspects like business goals, strategies, and value chains, but it concentrates on process modeling techniques and process enactment platforms, taking into account the different stakeholders involved. After starting with a presentation of general foundations, process orchestrations and process choreographies are covered. Based on control flow patterns, concrete process languages are introduced in a concise manner, including Workflow nets, Event-

driven Process Chains, Yet Another Workflow Language, and the Business Process Modeling Notation. The various stages during the design and implementation of process choreographies are discussed. Different soundness properties are investigated in a chapter on formal aspects of business processes. Finally, he investigates concrete architectures to enact business processes, including workflow management architectures, case handling architectures and service-oriented architectures. He also shows how standards like 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. It is also valuable for project managers and IT professionals working in business process management, since it provides a vendor-independent view on the topic. The accompanying website www.bpm-book.com contains further information, such as links to references that are available online, exercises that offer the reader a deeper involvement with the topics addressed, and additional teaching material.