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   Titolo   Process-Driven Applications with BPMN / / by Volker Stiehl

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   Descrizione fisica 1 online resource (345 p.)

   Disciplina   004
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   Soggetti   Application software
                       Management information systems
                       Industrial management
                       Information Systems Applications (incl. Internet)
                       Business Process Management
                       Computer Appl. in Administrative Data Processing
                       Business Information Systems

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Note generali   Description based upon print version of record.

   Nota di bibliografia   Includes bibliographical references and index.

   Nota di contenuto   Introduction -- Definition of Process-Driven Applications --
                       Architecture of Process-Driven Applications -- Implementing the Basic
                       Architecture of Process-Driven Applications -- Advanced Concepts for
                       Architecture Support in Process-Driven Applications -- Conclusion and
                       Outlook.

   Sommario/riassunto How can we optimize differentiating business processes and exploit
                       their full potential? Here Volker Stiehl provides answers, utilizing the
                       various options that the BPMN (Business Process Model and Notation)
                       standard offers for planning, implementing, and monitoring processes.
                       The book presents an approach for implementing an architecture for
                       applications that strives to find a balance between development and
                       maintenance costs, sustainability, scalability, and fault tolerance; that
                       meets flexibility requirements without becoming inordinately complex
                       itself; and that keeps the end application as abstract as possible from
                       the system landscape in which it operates. Based on the semantic

enhancements found in version 2.0 of the BPMN standard, which have made it possible to execute process models, his approach exploits BPMN to create and run complete application architectures. In this context, BPMN is not just used to model the business processes of the application, as the "B" in BPMN might suggest; but also to model and execute the integration processes between the systems. Throughout the book, the software package SAP Process Orchestration is used to illustrate the implementation of the proposed architecture, yet all recommendations are intentionally kept generic so that they can be implemented on any other comparable platform as well. Software architects, IT managers, software developers and project managers, as well as students of information and business technology will find the book a valuable resource. The proposed application architecture offers them a detailed blueprint, the principles of which they can use to plan and implement process-driven distributed applications.