Industrial Software Applications: A Master's Course for Engineers (de Gruyter Textbook)

By Rainer Geisler

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This book is written for engineering students and working professionals. Technical professionals are increasingly involved in IT issues, such as implementing IT systems, managing them, and taking part in requirements analysis/vendor selection. In this book, the basics of production planning systems (PPS) are covered, as well as their implementation in ERP-Systems like SAP. Readers also learn the basics of practical IT management and software creation through detailed, real-world examples. The book serves as a full 5 ECTS study module, which fits into any engineering curriculum. 150 multiple-choice quizzes, practical exercises and a text filled with experiential examples make it a convenient choice for selfstudy and for classroom use.

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Industrial Software Applications: A Master's Course for Engineers (de Gruyter Textbook) By Rainer Geisler Bibliography

- Published on: 2014-01-01
- Original language: English
- Number of items: 1
- Dimensions: 9.40" h x 1.00" w x 6.60" l, 1.86 pounds
- Binding: Paperback
- 520 pages

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Editorial Review

From the Author
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From the Back Cover
 Each day, engineers and technical professionals encounter Information Technology issues, such as implementing IT systems, managing them, and taking part in requirements analysis/vendor selection. Thorough knowledge of these concepts, along with a basic understanding of modern ERP systems, is indispensable to these professionals. Additionally, engineers are expected to understand and apply the terminology and tools for software management.
This book focuses on several vital areas of information systems. First, it explores the types and uses of industrial IT systems and how they are connected to support business processes. Secondly, the concepts behind production planning and enterprise resource planning are explained, using real-world examples from SAP. An overview of IT governance and management concepts enables the reader to actively manage the relationship between technical business departments and IT departments.
 In the area of software creation, four basic decisions are described: business planning for IT systems, requirements for engineering and specification, vendor selection, and outsourcing considerations. The methods for illustrating processes, use cases and business structures are explained, as well as tools for choosing software with a decision matrix and scoring model. Finally, important aspects of IT project management and IT system testing are discussed. Change management, an essential component of any successful implementation, is explained using theoretical background and practical hint.
This book uniquely:

• Focuses on industrial application systems for mechanical engineers
• Serves as a full 5 ECTS study module for master's-level students and professionals
• Establishes a close connection between theory and practical application
• Provides relevant examples of SAP©, one of the leading ERP systems
• Includes 150 multiple-choice questions and practical exercises

About the Author
Prof. Dr. Rainer Geisler
graduated in Business Management and earned his PH.D at the University of Bamberg.
From 1997 to 2003 he worked for the international strategy consultant group Droege & Comp and afterwards as a managing partner at H&P Consult.

Since 2006 he is Professor for industrial software systems and international project management at the University of Applied Sciences in Kiel.

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