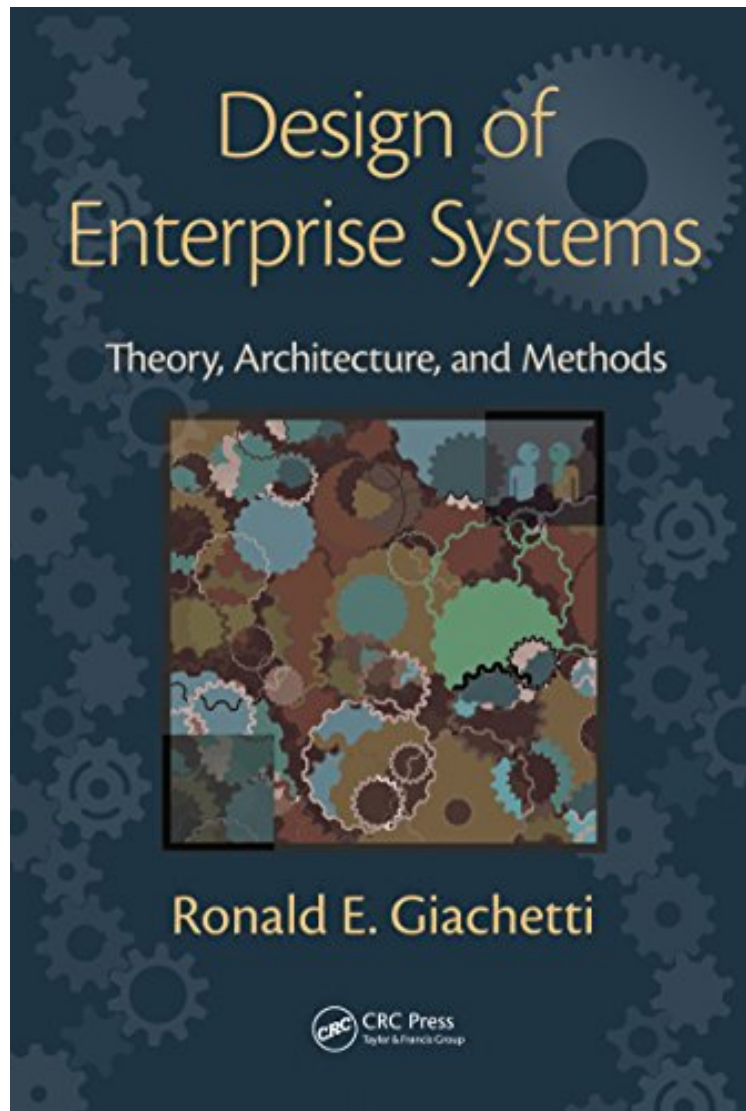


# Design of Enterprise Systems: Theory, Architecture, and Methods

Ronald E. Giachetti

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**Ronald E. Giachetti : Design of Enterprise Systems: Theory, Architecture, and Methods** before purchasing it in order to gage whether or not it would be worth my time, and all praised Design of Enterprise Systems: Theory, Architecture, and Methods:

6 of 6 people found the following review helpful. Simple and straight to the pointBy Gonzalo I. FigueroaDesign of Enterprise Systems: Theory, Architecture, and MethodsDesign of Enterprise Systems is simple and straight to the point. The information provided is well documented and summarized. The author provides various examples which give you a solid base to understand the concepts thoroughly. At the end of each chapter there are concept and exercise questions that will help you verify your knowledge of the subject matter. The only thing missing in this book is that

the exercise problems do not include potential solutions. While I do understand that Designing an Enterprise System depends on the problem and point of view of the observer, having a general guide to answering the exercises would have been helpful. From my point of view, this book was designed well for students; guiding them step-by-step through different topics. For professionals, the book also stands as a useful reference guide. This book includes the following chapters: Enterprise Engineering, systems theory, modeling concepts, Enterprise design methodology, Enterprise architecture, Enterprise analysis and design methodology, strategy, problem formulation and requirements, generate and evaluate alternatives, process modeling, queuing theory, process design, information modeling, information design, organization design, enterprise technology and integration. I highly recommend it for anyone studying enterprise systems. However, if you are new to this topic the only problem would be the lack of answers to the exercise questions. 0 of 0 people found the following review helpful. Great text that is very practical in its approach to ... By MDR Great text that is very practical in its approach to train and assist designers of enterprise systems. Fantastic reference on enterprise design to have on your shelf. 0 of 1 people found the following review helpful. Do not buy this book - keep looking. By Edwin Not a very good book at all. This publisher has a hard time getting good writers. If you have a choice, find another book.

In practice, many different people with backgrounds in many different disciplines contribute to the design of an enterprise. Anyone who makes decisions to change the current enterprise to achieve some preferred structure is considered a designer. What is problematic is how to use the knowledge of separate aspects of the enterprise to achieve a globally optimized enterprise. The synthesis of knowledge from many disciplines to design an enterprise defines the field of enterprise engineering. Because enterprise systems are exceedingly complex, encompassing many independent domains of study, students must first be taught how to think about enterprise systems. Specifically written for advanced and intermediate courses and modules, *Design of Enterprise Systems: Theory, Architecture, and Methods* takes a system-theoretical perspective of the enterprise. It describes a systematic approach, called the enterprise design method, to design the enterprise. The design method demonstrates the principles, models, methods, and tools needed to design enterprise systems. The author uses the enterprise system design methodology to organize the chapters to mimic the completion of an actual project. Thus, the book details the enterprise engineering process from initial conceptualization of an enterprise to its final design. Pedagogical tools available include: For instructors: PowerPointreg; slides for each chapter Project case studies that can be assigned as long-term projects to accompany the text Quiz questions for each chapter Business Process Analyzer software available for download For students: Templates, checklists, forms, and models to support enterprise engineering activities The book fills a need for greater design content in engineering curricula by describing how to design enterprise systems. Inclusion of design is also critical for business students, since they must realize the import their decisions may have on the long-term design of the enterprises they work with. The book's practical focus and project-based approach coupled with the pedagogical tools gives students the knowledge and skills they need to lead enterprise engineering projects.

About the Author Ronald E. Giachetti is an Associate Professor of Engineering Management at Florida International University in Miami, Florida. Prior to joining FIU in 1998, he worked at the National Institute of Standards and Technology in Gaithersburg, Maryland. He conducts research in enterprise systems, operations research, and information systems. He has completed projects for government agencies, including NSF, the US Air Force, and NASA.