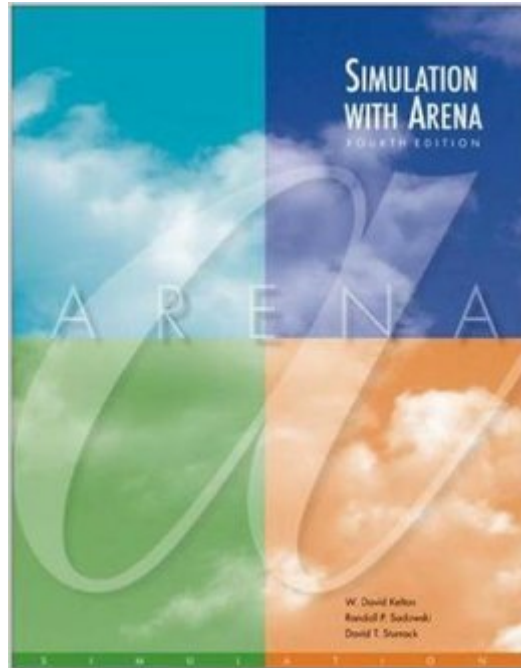# Simulation With Arena With CD (McGraw-Hill Series In Industrial Engineering And Management)

Synopsis

This fourth edition of Simulation with Arena has the same goal as the first three editions: to provide a comprehensive treatment of simulation concepts in general and the Arena simulation software in particular. It starts by having the reader develop simple, well-animated, high-level models, and then progresses to advanced modeling and analysis. Statistical design and analysis of simulation experiments is integrated with the modeling chapters, reflecting the joint nature of these activities in good simulation studies. The objective is to help the reader carry out effective simulation modeling, analysis, and projects using the Arena simulation system. An informal, tutorial writing style is used to aid the beginner in fully understanding the ideas and topics presented. Included is a CD containing the current version of the Arena academic software and the examples referenced throughout the text. Starting with an introduction to simulation concepts, the book progresses through an overview of the Arena software, basic model development, input analysis, additional modeling constructs, output analysis, and advanced modeling. It also includes chapters on integrating Arena simulation models with other applications, specialized statistical issues, continuous simulation, and conducting a successful simulation study. It is intended primarily to be a text in a first course on simulation or for self-study. However, the later chapters could be incorporated into an advanced or graduate-level course. Building on the success of the first three editions, published in 1998, 2002, and 2004, this edition retains the basic outline and tutorial style, built around a sequence of successively more complicated examples. All the examples and discussion, however, have been modified and updated to be consistent with the current version of the Arena software, and additional examples have been developed, along with more exercises. As before, a password-protected website for instructors provides support in terms of downloadable lecture slides and solutions to end-of-chapter exercises. The book draws heavily on the experience and expertise of the authors, a professor at the University of Cincinnati specializing in simulation, and two seasoned members of Rockwell Software (formerly Systems Modeling), the developers of Arena, who are active in product design and development, training, consulting, and applications.

Book Information

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Customer Reviews

I teach a simulation course using this book. It is one of the best textbooks I have ever used in any discipline. It is extremely well designed for an undergraduate audience. For more emphasis on the statistical fundamentals of simulation, I recommend Law and Kelton's graduate book, but if your goal is to complete a project for a company, or to prepare a comprehensive undergraduate simulation course with plenty of modeling examples and useful exercises, then this is the book that will take you from zero to hero.

How to build a new complex system and test it out during the busiest holiday season ever BEFORE hitting the first nail. Great book for anyone interested in improving their business or getting paid a lot to improve someone else's business.

Excellent guide of the major functionalities of arena 10.00.However, it seems that there a lot more to cover to have a good grasp of Arena.

This book has been co-authored by a university professor and two Rockwell people. It neither serves its purpose as a "theory" book nor an "applied" book.It leads you through the process of creating a simulation by using examples.I would have preferred this to be more of a reference book answering questions such as "If I want to do this what modules should I use?". Instead, when faced with a minor question (e.g. how to count exiting entities with different attributes?) I end up reading half the book and still not find a suitable answer.The occasionnal jokes are quite funny though!

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