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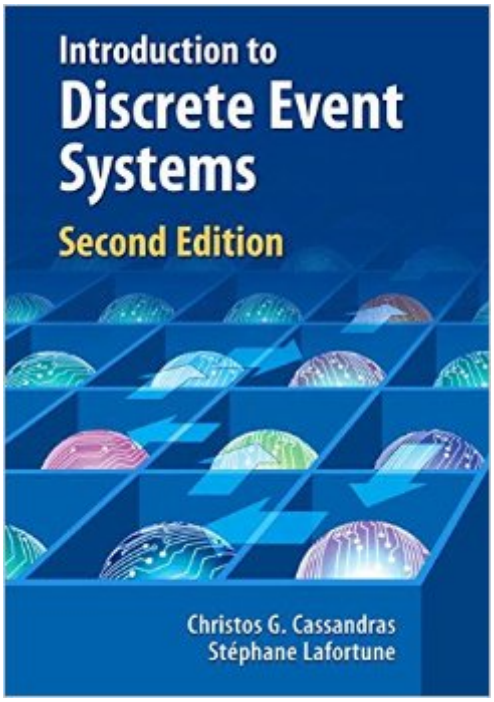
Introduction To Discrete Event Systems



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Synopsis

Introduction to Discrete Event Systems is a comprehensive introduction to the field of discrete event systems, offering a breadth of coverage that makes the material accessible to readers of varied backgrounds. The book emphasizes a unified modeling framework that transcends specific application areas, linking the following topics in a coherent manner: language and automata theory, supervisory control, Petri net theory, Markov chains and queuing theory, discrete-event simulation, and concurrent estimation techniques. This edition includes recent research results pertaining to the diagnosis of discrete event systems, decentralized supervisory control, and interval-based timed automata and hybrid automata models.

Book Information

Hardcover: 772 pages

Publisher: Springer; 2nd edition (December 14, 2009)

Language: English

ISBN-10: 0387333320

ISBN-13: 978-0387333328

Product Dimensions: 7 x 1.6 x 10 inches

Shipping Weight: 3.4 pounds

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Customer Reviews

This book is a great textbook for students who are interested in the control engineering field. Due to the difficulty, it is more focused for graduate students. This book has won the 1999 harold chestnut prize awarded by the International Federation of Automatic Control (IFAC). The topics are language and automata theory, supervisory control, Petri net theory, (max,+) algebra, Markov chains and queueing theory, discrete-event simulation, perturbation analysis, and concurrent estimation techniques. This book is used in many universities in the US but also in countries like Korea as well.

This book has everything from basics to more complicated maths. It also comes with algorithms

which then can help you implement the theory you just learned.

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