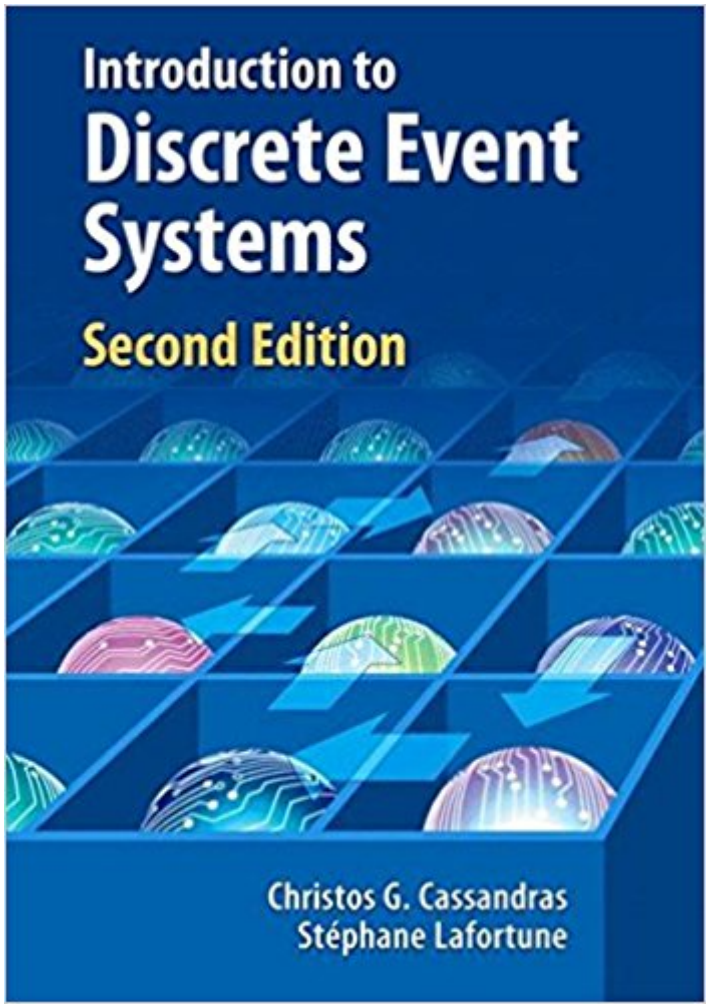
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Introduction To Discrete Event Systems



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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.

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Customer Reviews

From the reviews of the second edition:"This largely self-contained and extremely accessible textbook presents a unified treatment of DES essentially centred on automata and proceeds with a gradual increase in complexity by covering untimed, timed, and stochastic timed models. Ã¢â ¬Â¦ suitable for senior undergraduate or junior graduate level clientele, this textbook maintains the same format with a profusion of exercises and a good set of references at the end of each chapter, making it extremely useful for supporting coursework." (Fernando Lobo Pereira, Mathematical Reviews, Issue 2009 f)"This book is an introduction to discrete event systems that emphasizes modeling and control issues. Ã¢â ¬Â¦ Several references and a Web site devoted to the book

increase its value and usability. The book is well written and maintains a good balance of breadth and depth. It is highly suitable as a textbook, featuring various examples that make it easy to follow and understand the topics. It is already used in several universities around the world." (G. Ciobanu, ACM Computing Reviews, October, 2009)"This textbook is a comprehensive introduction to the field of discrete event systems, emphasizing breadth of coverage and accessibility of the material to a large audience of readers with different backgrounds. Its key feature is the emphasis placed on a unified modeling framework for the different facets of the study of discrete event systems." (Tiit Riismaa, Zentralblatt MATH, Vol. 1165, 2009)Ã¢â ¬Å“A textbook for advanced-level students Ã¢â ¬Â¦ and as a reference for researchers in the areas of control, communications, computer engineering, computer science, manufacturing engineering, operations research, and industrial engineering. Ã¢â ¬Â¦ We consider Introduction to Discrete Event Systems among the best books that are excellent for both instructional and research purposes. Ã¢â ¬Â¦ the book still enjoys its status as one of a kind in the field of discrete event systems because of its quality, scope, utility, timeliness, and a wealth of important coherent topics.Ã¢â ¬Â• (Andrea Paoli and N. Eva Wu, IEEE Control Systems Magazine, Vol. 29, June, 2009)Ã¢â ¬Å“Like the first edition, this edition provides a broad introduction to the field of discrete event systems. The book combines easy-to-read concepts and methods of such topics as language and automata theory, supervisory control. Ã¢â ¬Â¦ This second edition is thoroughly and carefully revised and expanded. Ã¢â ¬Â¦ The book is clearly written and well organized. Ã¢â ¬Â¦ It will benefit both undergraduate and graduate students Ã¢â ¬Â¦ . this book will be useful for researchers in a host of disciplines related to the study of discrete event systems.Ã¢â ¬Â• (Technometrics, Vol. 51 (1), February, 2009)

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 queueing theory, discrete-event simulation, and concurrent estimation techniques. Distinctive features of the second edition include: more detailed treatment of equivalence of automata, event diagnosis, and decentralized event diagnosis expanded treatment of centralized and decentralized control of partially-observed systems new sections on timed automata with guards (in the Alur-Dill formalism) and hybrid automata an introduction to hybrid systems updated coverage of discrete event simulation, including new software tools available recent developments in sensitivity analysis for discrete event systems as

well as hybrid systems This textbook is valuable to advanced-level students and researchers in a variety of disciplines where the study of discrete event systems is relevant: control, communications, computer engineering, computer science, manufacturing engineering, operations research, and industrial engineering.

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.

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.

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