1.	Record Nr.	UNINA9910141604703321
	Autore	Yalaoui Alice
	Titolo	Optimization of logistics [[electronic resource] /] / Alice Yalaoui ... [et al.]
	Pubbl/distr/stampa	Hoboken, N.J., : ISTE Ltd., : John Wiley and Sons, Inc., 2012
	ISBN	1-118-56959-8
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	Descrizione fisica	1 online resource (305 p.)
	Collana	Automation-control and industrial engineering series
	Altri autori (Persone)	YalaouiAlice
	Disciplina	511.1
	Soggetti	Computer science - Mathematics
		Logistics - Mathematical models
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Cover; Title Page; Copyright Page; Table of Contents; Introduction; Chapter 1. Modeling and Performance Evaluation; 1.1. Introduction; 1.2. Markovian processes; 1.2.1. Overview of stochastic processes; 1.2.2. Markov processes; 1.2.2.1. Basics; 1.2.2.2. Chapman-Kolmogorov equations; 1.2.2.3. Steady-state probabilities; 1.2.2.4. Graph associated with a Markov process; 1.2.2.5. Application to production systems; 1.2.3. Markov chains; 1.2.3.1. Basics; 1.2.3.2. State probability vectors; 1.2.3.3. Fundamental equation of a Markov chain; 1.2.3.4. Graph associated with a Markov chain 1.2.3.5. Steady states of ergodic Markov chains1.2.3.6. Application to production systems; 1.3. Petri nets; 1.3.1. Introduction to Petri nets; 1.3.1.1. Basic definitions; 1.3.1.2. Dynamics of Petri nets; 1.3.1.3. Specific structures; 1.3.1.4. Tools for Petri net analysis; 1.3.1.5. Properties of Petri nets; 1.3.2. Non-autonomous Petri nets; 1.3.3. Timed Petri nets; 1.3.4. Continuous Petri nets; 1.3.4.1. Fundamental equation and performance analysis; 1.3.4.2. Example; 1.3.5. Colored Petri nets; 1.3.6. Stochastic Petri nets; 1.3.6.1. Firing time; 1.3.6.2. Firing selection policy 1.3.6.3. Service policy1.3.6.4. Memory policy; 1.3.6.5. Petri net

Sommario/riassunto	This book aims to help engineers, Masters students and young researchers to understand and gain a general knowledge of logistic systems optimization problems and techniques, such as system design, layout, stock management, quality management, lot-sizing or scheduling. It summarizes the evaluation and optimization methods used to solve the most frequent problems. In particular, the authors also emphasize some recent and interesting scientific developments, as well as presenting some industrial applications and some solved instances from real-life cases.Performance evaluation tools (Pet

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   Autore   Xu Yanfei

   Titolo   Flame Retardant and Thermally Insulating Polymers / / Yanfei Xu

   Pubbl/distr/stampa   London : , : IntechOpen, , 2021

   Descrizione fisica   1 online resource (132 pages)

   Disciplina   628.9223

   Soggetti   Fireproofing agents

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Sommario/riassunto   Polymers have infiltrated almost every aspect of modern technology, as they have wide applications ranging from building insulation and firefighter uniforms to the Boeing 787 Dreamliner aircraft and electronics packaging. However, common polymers are flammable. Inflammability and thermal insulation properties in polymers are important for specific applications. This book discusses recent advances in developing eco-friendly, flame-retardant, and thermally insulative polymer-based materials. It not only focuses on developments of high-performance flame retardants, but also examines flame retardant behaviors in polymers. Eco-friendly polymers with superior flame retardancy, extraordinary thermal insulation, and excellent mechanical strength will provide new opportunities for existing and future applications.