

1. Record Nr.	UNINA9910298570103321
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Titolo	Fundamentals of Matrix-Analytic Methods // by Qi-Ming He
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2014
ISBN	1-4614-7330-6
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (363 p.)
Disciplina	003.3 004 004.0151 519
Soggetti	Computer science—Mathematics Applied mathematics Engineering mathematics Operations research Management science Probabilities Decision making Mathematical models Mathematics of Computing Mathematical and Computational Engineering Operations Research, Management Science Probability Theory and Stochastic Processes Operations Research/Decision Theory Mathematical Modeling and Industrial Mathematics
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.
Nota di contenuto	From Exponential Distribution to Phase-Type Distribution -- From Poisson Process to Markovian Arrival Process -- From Birth-and-Death Process to Structured Markov Chain -- Applications in Queueing Theory -- Applications in Inventory and Supply Chain Management.
Sommario/riassunto	Fundamentals of Matrix-Analytic Methods targets advanced-level students in mathematics, engineering and computer science. It focuses

on the fundamental parts of Matrix-Analytic Methods, Phase-Type Distributions, Markovian arrival processes and Structured Markov chains and matrix geometric solutions. New materials and techniques are presented for the first time in research and engineering design. This book emphasizes stochastic modeling by offering probabilistic interpretation and constructive proofs for Matrix-Analytic Methods. Such an approach is especially useful for engineering analysis and design. Exercises and examples are provided throughout the book.
