1.	Record Nr.	UNINA9910460576503321
	Autore	Gautam Natarajan
	Titolo	Analysis of queues : methods and applications / / by Natarajan Gautam
	Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2012
	ISBN	0-429-09359-4
		1-4398-0659-4
	Edizione	[First edition.]
	Descrizione fisica	1 online resource (788 p.)
	Collana	Operations Research Series
	Disciplina	519.82
	Soggetti	Queuing theory
		Electronic books.
	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	Front Cover; Dedication; Contents; Preface; Acknowledgments; Author; List of Case Studies; List of Paradoxes; 1. Introduction; 2. Exponential Interarrival and Service Times: Closed-Form Expressions; 3. Exponential Interarrival and Service Times: Numerical Techniques and Approximations; 4. General Interarrival and/or Service Times: Closed-Form Expressions and Approximations; 5. Multiclass Queues under Various Service Disciplines; 6. Exact Results in Network of Queues: Product Form; 7. Approximations for General Queueing Networks 8. Fluid Models for Stability, Approximations, and Analysis of Time-Varying Queues9. Stochastic Fluid-Flow Queues: Characteristics and Exact Analysis; 10. Stochastic Fluid-Flow Queues: Bounds and Tail Asymptotics; Appendix A: Random Variables; Appendix B: Stochastic Processes; References
	Sommario/riassunto	Written with students and professors in mind, Analysis of Queues: Methods and Applications combines coverage of classical queueing theory with recent advances in studying stochastic networks. Exploring a broad range of applications, the book contains plenty of solved problems, exercises, case studies, paradoxes, and numerical examples.