1.	Record Nr.	UNISA996466164803316
	Autore	Le Boudec Jean-Yves
	Titolo	Network Calculus [[electronic resource]] : A Theory of Deterministic Queuing Systems for the Internet / / by Jean-Yves Le Boudec, Patrick Thiran
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
	ISBN	3-540-45318-0
	Edizione	[1st ed. 2001.]
	Descrizione fisica	1 online resource (XX, 276 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2050
	Disciplina	004.678
	Soggetti	Computer science
		Computer communication systems
		Operating systems (Computers)
		Coding theory
		Information theory
		Application software
		Information storage and retrieval
		Popular Computer Science
		Computer Communication Networks
		Operating Systems
		Coding and Information Theory
		Information Systems Applications (incl. Internet)
		Information Storage and Retrieval
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Network Calculus -- Application of Network Calculus to the Internet -- Basic Min-plus and Max-plus Calculus -- Min-plus and Max-plus System Theory -- Optimal Multimedia Smoothing -- FIFO Systems and Aggregate Scheduling -- Adaptive and Packet Scale Rate Guarantees -- Time Varying Shapers -- Systems with Losses.
	Sommario/riassunto	Network Calculus is a set of recent developments that provide deep insights into flow problems encountered in the Internet and in intranets. The first part of the book is a self-contained, introductory

course on network calculus. It presents the core of network calculus, and shows how it can be applied to the Internet to obtain results that have physical interpretations of practical importance to network engineers. The second part serves as a mathematical reference used across the book. It presents the results from Min-plus algebra needed for network calculus. The third part contains more advanced material. It is appropriate reading for a graduate course and a source of reference for professionals in networking by surveying the state of the art of research and pointing to open problems in network calculus and its application in different fields, such as mulitmedia smoothing, aggegate scheduling, adaptive guarantees in Internet differential services, renegotiated reserved services, etc.