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Autore	CUJAS, Jacques
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2. 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
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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 multimedia smoothing, aggregate scheduling, adaptive guarantees in Internet differential services, renegotiated reserved services, etc.