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	Titolo	Logics for Concurrency [[electronic resource]] : Structure versus Automata / / edited by Faron Moller, Graham Birtwistle
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1996
	ISBN	3-540-49675-0
	Edizione	[1st ed. 1996.]
	Descrizione fisica	1 online resource (XIII, 268 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1043
	Disciplina	004/.36/015113
	Soggetti	Architecture, Computer
		Computers
		Computer logic
		Mathematical logic
		Algorithms
		Computer System Implementation
		Theory of Computation
		Logics and Meanings of Programs
		Mathematical Logic and Formal Languages
		Computation by Abstract Devices
		Algorithm Analysis and Problem Complexity
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di contenuto	Specification Structures and propositions-as-types for concurrency -- Automated temporal reasoning about reactive systems -- Decidability results in automata and process theory -- Modal and temporal logics for processes -- An automata-theoretic approach to linear temporal logic.
	Sommario/riassunto	This book presents five tutorial-style lectures on various approaches to the problem of verifying distributed systems: three chapters concentrate on linear-time or branching-time temporal logics; one addresses process equivalence with an emphasis on infinite-state systems; and the final one presents a novel category-theoretic approach to verification. The various formalisms for expressing

properties of concurrent systems, based on automata-theoretic techniques or structural properties, are studied in detail. Much attention is paid to the style of writing and complementary coverage of the relevant issues. Thus these lecture notes are ideally suited for advanced courses on logics for concurrent systems. Equally, they are indispensable reading for anyone researching the area of distributed computing.