1.	Record Nr.	UNINA9910299203603321
	Autore	Gorrieri Roberto
	Titolo	Introduction to Concurrency Theory : Transition Systems and CCS / / by Roberto Gorrieri, Cristian Versari
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
	ISBN	3-319-21491-8
	Edizione	[1st ed. 2015.]
	Descrizione fisica	1 online resource (XI, 334 p. 63 illus.)
	Collana	Texts in Theoretical Computer Science. An EATCS Series, , 1862-4499
	Disciplina	004.0151
	Soggetti	Computers Computer science—Mathematics Software engineering Logic, Symbolic and mathematical Theory of Computation Mathematics of Computing Software Engineering/Programming and Operating Systems Mathematical Logic and Foundations
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Includes index.
	Nota di contenuto	Introduction -- Transition Systems and Behavioral Equivalences -- CCS: A Calculus of Communicating Systems -- Algebraic Laws, Congruences and Axiomatizations -- Additional Operators -- Multi-CCS -- Glossary -- References -- Index.
	Sommario/riassunto	This book presents the fundamentals of concurrency theory with clarity and rigor. The authors start with the semantic structure, namely labelled transition systems, which provides us with the means and the tools to express processes, to compose them, and to prove properties they enjoy. The rest of the book relies on Milner's Calculus of Communicating Systems, tailored versions of which are used to study various notions of equality between systems, and to investigate in detail the expressive power of the models considered. The authors proceed from very basic results to increasingly complex issues, with many examples and exercises that help to reveal the many subtleties of the topic. The book is suitable for advanced undergraduate and

graduate students in computer science and engineering, and scientists engaged with theories of concurrency.