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Disciplina	512.2
Soggetti	Group theory Associative rings Rings (Algebra) Algebra Ordered algebraic structures K-theory Measure theory Group Theory and Generalizations Associative Rings and Algebras Order, Lattices, Ordered Algebraic Structures General Algebraic Systems K-Theory Measure and Integration
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Background -- Chapter 2. Partial commutative monoids. - Chapter 3. Boolean inverse semigroups and additive semigroup homomorphisms -- Chapter 4. Type monoids and V-measures. - Chapter 5. Type theory of special classes of Boolean inverse semigroups. - Chapter 6. Constructions involving involutory semirings and rings. - Chapter 7. discussion. - Bibliography -- Author Index. - Glossary -- Index.
Sommario/riassunto	Adopting a new universal algebraic approach, this book explores and consolidates the link between Tarski's classical theory of

equidecomposability types monoids, abstract measure theory (in the spirit of Hans Dobbertin's work on monoid-valued measures on Boolean algebras) and the nonstable K-theory of rings. This is done via the study of a monoid invariant, defined on Boolean inverse semigroups, called the type monoid. The new techniques contrast with the currently available topological approaches. Many positive results, but also many counterexamples, are provided.
