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| Autore                  | Wehrung Friedrich   |
| Titolo                  | Refinement Monoids, Equidecomposability Types, and Boolean Inverse Semigroups // by Friedrich Wehrung   |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017   |
| ISBN                    | 3-319-61599-8   |
| Edizione                | [1st ed. 2017.]   |
| Descrizione fisica      | 1 online resource (VII, 242 p. 5 illus.)  |
| Collana                 | Lecture Notes in Mathematics, , 0075-8434 ; ; 2188  |
| Disciplina              | 512.2   |
| Soggetti                | Group theory<br>Associative rings<br>Rings (Algebra)<br>Algebra<br>Ordered algebraic structures<br>K-theory<br>Measure theory<br>Group Theory and Generalizations<br>Associative Rings and Algebras<br>Order, Lattices, Ordered Algebraic Structures<br>General Algebraic Systems<br>K-Theory<br>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.<br>- Chapter 3. Boolean inverse semigroups and additive semigroup homomorphisms -- Chapter 4. Type monoids and V-measures.<br>- Chapter 5. Type theory of special classes of Boolean inverse semigroups. - Chapter 6. Constructions involving involuntary 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.

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