

1. Record Nr.	UNINA9910300124603321
Autore	Eklund Patrik
Titolo	Semigroups in Complete Lattices : Quantales, Modules and Related Topics // by Patrik Eklund, Javier Gutierrez Garcia, Ulrich Höhle, Jari Kortelainen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-78948-1
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXI, 326 p.)
Collana	Developments in Mathematics, , 1389-2177 ; ; 54
Disciplina	511.33
Soggetti	Algebra Ordered algebraic structures Category theory (Mathematics) Homological algebra Mathematical logic Order, Lattices, Ordered Algebraic Structures Category Theory, Homological Algebra Mathematical Logic and Formal Languages
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- 1 Foundations -- 2 Fundamentals of Quantales -- 3 Module Theory in Sup -- Appendix -- References -- Index.
Sommario/riassunto	This monograph provides a modern introduction to the theory of quantales. First coined by C.J. Mulvey in 1986, quantales have since developed into a significant topic at the crossroads of algebra and logic, of notable interest to theoretical computer science. This book recasts the subject within the powerful framework of categorical algebra, showcasing its versatility through applications to $C^*$ - and MV-algebras, fuzzy sets and automata. With exercises and historical remarks at the end of each chapter, this self-contained book provides readers with a valuable source of references and hints for future research. This book will appeal to researchers across mathematics and computer science with an interest in category theory, lattice theory, and many-valued logic.

