1. Record Nr. UNINA9910300245603321

Autore	Saitô Kazuyuki
Titolo	Monotone complete C-algebras and generic dynamics / / by Kazuyuki Saitô, J. D. Maitland Wright
Pubbl/distr/stampa	London : , : Springer London : , : Imprint : Springer, , 2015
ISBN	1-4471-6775-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (265 p.)
Collana	Springer Monographs in Mathematics, , 1439-7382
Disciplina	512.556
Soggetti	Functional analysis Algebra Ordered algebraic structures Associative rings Rings (Algebra) Functional Analysis Order, Lattices, Ordered Algebraic Structures Associative Rings and Algebras
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Order Fundamentals -- Classification and Invariants -- Commutative Algebras: Constructions and Classifications -- Convexity and Representations -- Generic Dynamics -- Constructing Monotone Complete C-algebras -- Envelopes, Completions and AW-algebras.
Sommario/riassunto	This monograph is about monotone complete C*-algebras, their properties and the new classification theory. A self-contained introduction to generic dynamics is also included because of its important connections to these algebras. Our knowledge and understanding of monotone complete C*-algebras has been transformed in recent years. This is a very exciting stage in their development, with much discovered but with many mysteries to unravel. This book is intended to encourage graduate students and working mathematicians to attack some of these difficult questions. Each bounded, upward directed net of real numbers has a limit. Monotone complete algebras of operators have a similar property. In particular, every von Neumann algebra is monotone complete but the

converse is false. Written by major contributors to this field, Monotone Complete C*-algebras and Generic Dynamics takes readers from the basics to recent advances. The prerequisites are a grounding in functional analysis, some point set topology and an elementary knowledge of C*-algebras.