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Titolo	Hilbert C- Modules and Quantum Markov Semigroups // by Lunchuan Zhang
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Descrizione fisica	1 online resource (222 pages)
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Soggetti	Operator theory Functional analysis Markov processes Operator Theory Functional Analysis Markov Process
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Basic Theory of Hilbert C*-modules -- Kasprove's Stabilization and Fredholm Generalized Index Theory -- Quantum Markov Semigroups and Operator-valued Dirichlet Forms.
Sommario/riassunto	This book explains the basic theory of Hilbert C*-module in detail, covering a wide range of applications from generalized index to module framework. At the center of the book, the Beurling-Deny criterion is characterized between operator valued Dirichlet forms and quantum Markov semigroups, hence opening a new field of quantum probability research. The general scope of the book includes: basic theory of Hilbert C*-modules; generalized indices and module frames; operator valued Dirichlet forms; and quantum Markov semigroups. This book will be of value to scholars and graduate students in the fields of operator algebra, quantum probability and quantum information.