1. Record Nr. UNISA996466646903316

Autore	Mukhamedov Farrukh
Titolo	Quantum Quadratic Operators and Processes [[electronic resource] /] / by Farrukh Mukhamedov, Nasir Ganikhodjaev
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-22837-4
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XIV, 231 p. 1 illus.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 2133
Disciplina	515.352
Soggetti	Dynamics Ergodic theory Functional analysis Operator theory Probabilities Dynamical Systems and Ergodic Theory Functional Analysis Operator Theory Probability Theory and Stochastic Processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Quadratic Stochastic Operators -- Quadratic Processes -- Analytic methods in the theory of quadratic stochastic processes -- Quantum quadratic operators -- Quantum quadratic operators on M2 (C) -- Infinite-dimensional quadratic operators -- Quantum quadratic stochastic processes.
Sommario/riassunto	Covering both classical and quantum approaches, this unique and self-contained book presents the most recent developments in the theory of quadratic stochastic operators and their Markov and related processes. The asymptotic behavior of dynamical systems generated by classical and quantum quadratic operators is investigated and various properties of quantum quadratic operators are studied, providing an insight into the construction of quantum channels. This book is suitable as a textbook for an advanced undergraduate/graduate level course or summer school in quantum dynamical systems. It can also be used as a

reference book by researchers looking for interesting problems to work on, or useful techniques and discussions of particular problems. Since it includes the latest developments in the fields of quadratic dynamical systems, Markov processes and quantum stochastic processes, researchers at all levels are likely to find the book inspiring and useful.