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Note generali	Originally presented as the author's habilitation (Greifswald) under the title: Elements of a spatial theory for noncommutative stationary processes with discrete time index.
Nota di bibliografia	Includes bibliographical references (pages [165]-168) and index.
Nota di contenuto	Preface -- Introduction -- 1. Extensions and dilations -- 2. Markov processes -- 3. Adaptedness -- 4. Examples and applications -- A. Some facts about unital completely positive maps -- References -- Index.
Sommario/riassunto	Quantum probability and the theory of operator algebras are both concerned with the study of noncommutative dynamics. Focusing on stationary processes with discrete-time parameter, this book presents (without many prerequisites) some basic problems of interest to both fields, on topics including extensions and dilations of completely positive maps, Markov property and adaptedness, endomorphisms of operator algebras and the applications arising from the interplay of these themes. Much of the material is new, but many interesting questions are accessible even to the reader equipped only with basic knowledge of quantum probability and operator algebras.