Gohm

Noncommutative Stationary Processes

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.

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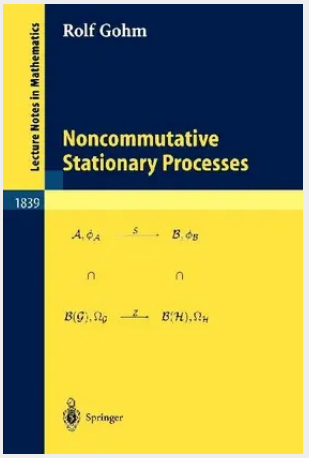

37,40 €
34,95 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540209263
Medium: Buch
ISBN: 978-3-540-20926-3
Verlag: Springer
Erscheinungstermin: 04.03.2004
Sprache(n): Englisch
Auflage: 1. Auflage 2004
Serie: Lecture Notes in Mathematics
Produktform: Kartoniert
Gewicht: 283 g
Seiten: 172
Format (B x H): 155 x 235 mm

Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)