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Autore	Holevo Alexander S
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Nota di contenuto	The Standard Statistical Model of Quantum Mechanics -- Statistics of Quantum Measurements -- Evolution of an Open System -- Repeated and Continuous Measurement Processes -- Processes in Fock Space.
Sommario/riassunto	New ideas on the mathematical foundations of quantum mechanics, related to the theory of quantum measurement, as well as the emergence of quantum optics, quantum electronics and optical communications have shown that the statistical structure of quantum mechanics deserves special investigation. In the meantime it has become a mature subject. In this book, the author, himself a leading researcher in this field, surveys the basic principles and results of the theory, concentrating on mathematically precise formulations. Special attention is given to the measurement dynamics. The presentation is pragmatic, concentrating on the ideas and their motivation. For detailed proofs, the readers, researchers and graduate students, are referred to the extensively documented literature.