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Nota di contenuto	Real Discrete Spectrum of Complex PT-Symmetric Scattering Potentials Geometrical and Asymptotical Properties of Non-Selfadjoint Induction Equation with the Jump of the Velocity Field. Time Evolution and Spatial Structure of the Magnetic Field PT Symmetric Classical and Quantum Cosmology Operator (Quasi-)Similarity, Quasi- Hermitian Operators and All that Generalized Jaynes-Cummings Model with a Pseudo-Hermitian: A Path Integral Approach Exceptional Points in a Non-Hermitian Extension of the Jaynes- Cummings Hamiltonian.
Sommario/riassunto	This book presents the Proceedings of the 15th International Conference on Non-Hermitian Hamiltonians in Quantum Physics, held in Palermo, Italy, from 18 to 23 May 2015. Non-Hermitian operators, and non-Hermitian Hamiltonians in particular, have recently received considerable attention from both the mathematics and physics communities. There has been a growing interest in non-Hermitian Hamiltonians in quantum physics since the discovery that PT- symmetric Hamiltonians can have a real spectrum and thus a physical

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relevance. The main subjects considered in this book include: PTsymmetry in quantum physics, PT-optics, Spectral singularities and spectral techniques, Indefinite-metric theories, Open quantum systems, Krein space methods, and Biorthogonal systems and applications. The book also provides a summary of recent advances in pseudo-Hermitian Hamiltonians and PT-symmetric Hamiltonians, as well as their applications in quantum physics and in the theory of open quantum systems.