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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- My Way in Mathematics: From Ergodic Theory Through Scattering to J-inner Matrix Functions and Passive Linear Systems Theory -- The Krein-von Neumann Realization of Perturbed Laplacians on Bounded Lipschitz Domains -- Schatten class integral operators occurring in Markov-type inequalities -- The Spectral problem for the dispersionless Camassa-Holm equation -- Twenty years after -- Form Inequalities for Symmetric Contraction Semigroups -- Generic rank-k perturbations of structured matrices -- The isomorphism problem for complete Pick algebras: a survey -- The Stationary State/Signal Systems Story -- Matrix-valued Hermitian positivstellensatz, lurking contractions, and contractive determinantal representations of stable polynomials -- Dichotomy, spectral subspaces and unbounded projections.
Sommario/riassunto	This volume collects a selected number of papers presented at the International Workshop on Operator Theory and its Applications

(IWOTA) held in July 2014 at Vrije Universiteit in Amsterdam. Main developments in the broad area of operator theory are covered, with special emphasis on applications to science and engineering. The volume also presents papers dedicated to the eightieth birthday of Damir Arov and to the sixty-fifth birthday of Leiba Rodman, both leading figures in the area of operator theory and its applications, in particular, to systems theory.
