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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	A survey on the Krein-von Neumann extension, the corresponding abstract buckling problem, and Weyl-type spectral asymptotics for perturbed Krein Laplacians in nonsmooth domains / M.S. Ashbaugh, F. Gesztesy, M. Mitrea, R. Shterenberg and G. Teschl -- Eigenvalues of non-selfadjoint operators: a comparison of two approaches / M. Demuth, M. Hansmann and G. Katriel -- Solvable models of resonances and decays / P. Exner -- Localization for random block operators / M. Gebert and P. Muller -- Magnetic relativistic Schrodinger operators and imaginary-time path integrals / T. Ichinose -- Some aspects of large time behavior of the heat kernel: an overview with perspectives / Y. Pinchover.
Sommario/riassunto	This volume presents self-contained survey articles on modern research areas written by experts in their fields. The topics are located at the interface of spectral theory, theory of partial differential operators, stochastic analysis, and mathematical physics. The articles are accessible to graduate students and researches from other fields of mathematics or physics while also being of value to experts, as they

report on the state of the art in the respective fields.
