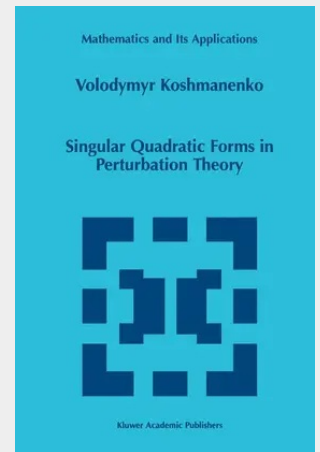


Singular Quadratic Forms in Perturbation Theory

The notion of singular quadratic form appears in mathematical physics as a tool for the investigation of formal expressions corresponding to perturbations devoid of operator sense. Numerous physical models are based on the use of Hamiltonians containing perturbation terms with singular properties. Typical examples of such expressions are Schrödinger operators with δ -potentials ($-\Delta + \delta$) and Hamiltonians in quantum field theory with perturbations given in terms of operators of creation and annihilation (P

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