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Includes bibliographical references at the end of each chapters.

Nota di contenuto

Roland Duduchava -- The Duduchava-Roch formula -- Convolution Type Operators with Symmetry in Bessel Potential Spaces -- On Symmetries of the Feinberg-Zee Random Hopping Matrix -- Inequalities of Babuška-Aziz and Friedrichs-Velte for differential forms -- High Frequency Oscillations of first Eigenmodes in Axisymmetric shells as the thickness tends to zero -- Kernels of Wiener-Hopf plus Hankel operators with matching generating functions -- Spline Galerkin methods for the double layer potential equations on contours with corners -- C^* -algebras of Bergman Type Operators with Piecewise Continuous Coefficients over Bounded Polygonal Domains -- Solvability and Lyapunov stability of a two-component system of generalized Poisson-Nernst-Planck equations -- A local uniqueness result for a quasi-linear heat transmission problem in a periodic two-phase dilute composite -- The method of potential operators for anisotropic Helmholtz operators on domains with smooth unbounded boundaries -- Gabor Analysis for Schrödinger Equations and Propagation of Singularities -- Commutative algebras of Toeplitz operators on a Siegel domain associated with the nilpotent group of its biholomorphisms.

Sommario/riassunto

This volume is dedicated to the eminent Georgian mathematician Roland Duduchava on the occasion of his 70th birthday. It presents recent results on Toeplitz, Wiener-Hopf, and pseudodifferential operators, boundary value problems, operator theory, approximation theory, and reflects the broad spectrum of Roland Duduchava's research. The book is addressed to a wide audience of pure and applied mathematicians.