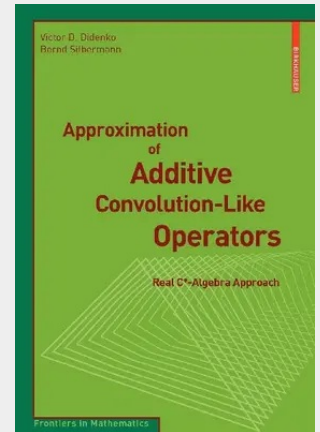


Approximation of Additive Convolution-Like Operators

Real C^* -Algebra Approach

This book deals with numerical analysis for certain classes of additive operators and related equations, including singular integral operators with conjugation, the Riemann-Hilbert problem, Mellin operators with conjugation, double layer potential equation, and the Muskhelishvili equation. It is the first book to present systematic study of approximation methods for the Muskhelishvili equation, and the first book entirely devoted to numerical analysis for additive operators. The authors propose a unified approach to the analysis of the approximation methods under consideration based on special real extensions of complex C^* -algebras. The list of the methods considered includes spline Galerkin, spline collocation, quallocation, and quadrature methods. The book is self-contained and accessible to graduate students.

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