

Fredholm Characterization of Systems of Equations of Wiener-Hopf and Hankel Type Containing Piecewise Almost Periodic Elements

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The talk will be devoted to the study of operators which characterize systems of certain equations of Wiener-Hopf and Hankel type having so-called Fourier matrix symbols in the algebra of piecewise almost periodic elements. A main part of the talk will be addressed to identify conditions for obtaining the Fredholm property of those operators. In addition, the Fredholm index will be discussed as well. The systems under study appear in different types of applications (e.g., in problems of wave diffraction by wedges).

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