The Fredholm property for Wiener-Hopf-Hankel operators in L^2 Lebesgue spaces

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Abstract

We will present a study of the Fredholm property for Wiener-Hopf-±Hankel operators with piecewise almost periodic Fourier symbols, and acting between L^2 Lebesgue spaces. The study is based on certain special factorizations of the corresponding Fourier symbols of the operators. Some examples are provided in view of the results illustration.