ISAAC Conference, 23-27 April, 2007, Tbilisi, Georgia Dedicated to the Centenary of I.Vekua

ON THE FREDHOLM PROPERTY AND INDEX OF A WIENER-HOPF PLUS/MINUS HANKEL OPERATORS WITH PIECEWISE ALMOST PERIODIC SYMBOLS

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We will present some regularity properties of Wiener-Hopf plus/minus Hankel operators with piecewise almost periodic Fourier symbols (i.e., when the Fourier symbols of the operators belong to the algebra generated by piecewise continuous and almost periodic elements). In this way, conditions will be presented for having the Fredholm property of these operators. Additionally, when in the presence of the Fredholm property, some formulas for the Fredholm indices of the operators will be described.