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Kashirin A.A., Smagin S.I. (smagin@as.khb.ru)

Computer center of the FEB RAS

NUMERICAL SOLUTION OF INTEGRAL EQUATIONS ON THE SPECTRUM FOR ACOUSTIC WAVES DIFFRACTION

The paper is devoted to the numerical solution of the integral equations of the three-dimensional scalar diffraction problem on the spectrum of integral operators, where the equivalence condition of the differential and integral definition of the problem is violated. The interpolation method is proposed, which allows to find approximate solutions of diffraction problems in these cases.

Keywords: integral equation, diffraction problem, spectrum, method of solution interpolation, multi-processor system.

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