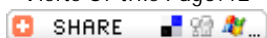




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## Research Details :

Research Title : *Diffraction of a spherical acoustic wave due to the coupling of pressure release and absorbing half planes in a moving fluid*  
*Diffraction of a spherical acoustic wave due to the coupling of pressure release and absorbing half planes in a moving fluid*

Descriptipn : We investigate the diffraction of a spherical acoustic wave (emanating due to a point source) from the coupling of a pressure release half plane characterized by zero impedance (soft half plane) and an absorbing (locally reacting) half plane satisfying Myers impedance condition in a moving fluid. Myers condition (a generalization of Ingards impedance condition) is now the accepted form of the boundary condition for impedance barriers with flow and yields a correct form of the diffracted field. The method of solution is based on the Wiener-Hopf technique and asymptotic approximation methods. (c) 2006 Elsevier Inc. All rights reserved.

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