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APPLICATION OF THE RESIDUE METHOD TO A MIXED PROBLEM

of

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Abstract: In this paper, the residue method of separation of variables is applied to a mixed problem which includes the flow of a stratified compressible fluid and inner gravitational waves of a stratified incompressible fluid for special values of the coefficients of the equation. To apply this method one defines two auxiliary problems. The first one is a spectral problem and the second is a Cauchy problem. Using the solutions of auxiliary problems, an existence and uniqueness theorem is proved for the given mixed problem.

 [Keywords](#)
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