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Special Solutions to Rotating Stratified Boussinesq Equations

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Abstract: In this paper, we have obtained some special solutions of rotating stratified Boussinesq equations and reduced these equations into the system of six coupled nonlinear ODEs. Further, in absence of strain field we have proved that the reduced system of six coupled ODEs is completely integrable.

Keywords: *rotating stratified Boussinesq equation, completely integrable systems, special solutions*

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