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stratified fluid in which $D\rho/Dt = 0$ but for which $\partial\rho/\partial x \neq 0$ and $\partial\rho/\partial y \neq 0$.

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For a Newtonian fluid, the dissipation function is defined by the following equation: $2 \sum_{i,j,k} k_{ij} k_{ji} u_i u_j u_k$
 $x \ x \ x \ x$ Evaluating the various terms in this equation for the Cartesian coordinates (x, y, z) and the Cartesian velocity components (u, v, w) , yields the following value for Φ : $2 \sum_{i,j,k} \mu \left(\frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_i} + \frac{\partial u_i}{\partial x_k} \frac{\partial u_k}{\partial x_i} + \frac{\partial u_j}{\partial x_k} \frac{\partial u_k}{\partial x_j} + \frac{\partial u_k}{\partial x_j} \frac{\partial u_j}{\partial x_k} + \frac{\partial u_k}{\partial x_i} \frac{\partial u_i}{\partial x_k} + \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_i} + \frac{\partial u_i}{\partial x_k} \frac{\partial u_k}{\partial x_i} + \frac{\partial u_j}{\partial x_k} \frac{\partial u_k}{\partial x_j} + \frac{\partial u_k}{\partial x_j} \frac{\partial u_j}{\partial x_k} + \frac{\partial u_k}{\partial x_i} \frac{\partial u_i}{\partial x_k} + \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_i} + \frac{\partial u_i}{\partial x_k} \frac{\partial u_k}{\partial x_i} + \frac{\partial u_j}{\partial x_k} \frac{\partial u_k}{\partial x_j} + \frac{\partial u_k}{\partial x_j} \frac{\partial u_j}{\partial x_k} + \frac{\partial u_k}{\partial x_i} \frac{\partial u_i}{\partial x_k} \right) u_i u_j u_k$

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z u v u w v w y x z x z y For a monotonic gas, the Stokes relation requires that $2/3$.

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