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1-9 Problem 1.9 For a Newtonian fluid,  
the dissipation function is defined by the  
following equation:  $2 \sum_{i,j,k} k_{ij} k_{ji} u_i u_j u_k$   
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  $\Phi$ :  $2 \sum_{i,j,k} \mu \frac{\partial u_i}{\partial x_j} \frac{\partial u_j}{\partial x_k} u_k$   
For a monotonic gas, the Stokes relation  
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