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Fundamental Mechanics Of Fluids, Fourth Edition, 4/E. Hardcover – January 1, 2012. by I.G. Currie (Author) 3.0 out of 5 stars 17 ratings. See all formats and editions.

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[BASIC CONSERVATION LAWS](#) Page 1-9 [Problem 1.9](#) For a Newtonian fluid, the dissipation function is defined by the following equation:  $2k_{ij}k_{ji} + u_i u_j x_i x_j$  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  $\Phi$ :  $2(u^2 + v^2 + w^2) + u^2 + v^2 + w^2 + 2uvx + 2vwy + 2wzx$  For a monotonic gas, the Stokes relation requires that  $\mu = 2/3 \lambda$ .

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