
Dungeon Madness By Dakota Krout (.ePUB) Pdf _TOP_

Size: 5937 KB Type: PDF, ePub, eBook.. Dungeon Madness by Dakota Krout (.ePUB) pdf Free Download.}, \label{eq:dmu}\$\$ where $f(\vec{v})$ and $g(\vec{v})$ are the distribution functions of \mathcal{V} in velocity space and μ is the mean molecular weight of a cell. Note that the net rate of momentum loss by viscous damping is given by $\frac{d\langle \vec{v} \rangle}{dt} = -\frac{1}{\tau} \langle \vec{v} \rangle = -\frac{\mu}{\tau} \langle \vec{U} \rangle$, \label{eq:dv}\$\$ which, in conjunction with Eq. (1), gives $\frac{d\langle \vec{U} \rangle}{dt} = -\langle \vec{U} \rangle \frac{1}{\tau} - \frac{d\langle \vec{v} \rangle}{dt} = \langle \vec{U} \rangle \left(-\frac{1}{\tau} + \frac{\mu}{\tau} \right)$. \label{eq:dv2}\$\$ As a consequence, $\frac{d\langle \vec{v} \rangle}{dt} = \left(\frac{d\langle \vec{v} \rangle}{dt} \right)_{\text{viscous}} + \frac{d\langle \vec{U} \rangle}{dt}$. \label{eq:noise2}\$\$ Equation (2) can be recast as a random force, $\frac{d\vec{v}}{dt} = \vec{U} + \vec{f}_r$, \label{eq:dvd}\$\$ where \vec{f}_r is a random variable drawn from the Gaussian distribution with zero mean and $\overline{f_i(\mathcal{V})} = 0$, $\overline{f_i(\mathcal{V})f_j(\mathcal{V}')} = \frac{\mu}{\tau} \delta_{ij} \delta(\mathcal{V} - \mathcal{V}')$, \label{eq:therm}\$\$ where

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