

$\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) = \rho \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) \right)$,
 $\frac{1}{2} \rho \frac{d}{dt} \left(\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) \right) = \rho \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) \right)$,
 $\frac{1}{2} \rho \frac{d}{dt} \left(\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) \right) = \rho \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) \right)$,
 $\frac{1}{2} \rho \frac{d}{dt} \left(\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) \right) = \rho \frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} D \frac{d}{dt} \left(\frac{1}{2} \rho v^2 \right) \right)$.

[\$\frac{1}{2} D \frac{d}{dt} \left\(\frac{1}{2} \rho v^2 \right\) = \rho \frac{1}{2} \frac{d}{dt} \left\(\frac{1}{2} D \frac{d}{dt} \left\(\frac{1}{2} \rho v^2 \right\) \right\)\$](#)