

PM4I BoK: Project Management for Innovation - Body of Knowledge (Italian Edition)

Boltzmann Equation

To follow the evolution of a fluid at a particular location x , we follow the evolution of a quantity $\chi(x, v)$ as described by the Boltzmann equation. To this end, we integrate over the full velocity range,

$$\int \left(\chi \frac{\partial f}{\partial t} + \chi v_k \frac{\partial f}{\partial x_k} - \chi \frac{\partial \Phi}{\partial x_k} \frac{\partial f}{\partial v_k} \right) d\vec{v} = \int \chi \left(\frac{\delta f}{\delta t} \right)_c d\vec{v}$$

If the quantity $\chi(x, \vec{v})$ is a conserved quantity in a collision, then the righthand side of the equation equals zero. For elastic collisions, these are mass, momentum and (kinetic) energy of a particle. Thus, for these quantities we have,

$$\int \chi \left(\frac{\delta f}{\delta t} \right)_c d\vec{v} = 0$$

The above result expresses mathematically the simple notion that collisions can not contribute to the time rate change of any quantity whose total is conserved in the collisional process.

For elastic collisions involving short-range forces in the nonrelativistic regime, there exist exactly five independent quantities which are conserved: mass, momentum and (kinetic) energy of a particle,

$$\chi = m; \quad \chi = mv_i; \quad \chi = \frac{m}{2} |\vec{v}|^2$$

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