

$$e_a \frac{\partial^2 u}{\partial t^2} + d_a \frac{\partial u}{\partial t} - \nabla \cdot (c \nabla u + \alpha u - \gamma) + \beta \cdot \nabla u + au = f$$

diffusion source absorption

mass damping/
mass

convection convection source

conservative flux

Detailed description: The diagram illustrates the physical meaning of each term in the equation. 'diffusion' points to the divergence term $-\nabla \cdot (c \nabla u + \alpha u - \gamma)$. 'source' points to the αu term within the divergence. 'absorption' points to the $- \gamma$ term within the divergence. 'mass' points to the $e_a \frac{\partial^2 u}{\partial t^2}$ term. 'damping/mass' points to the $d_a \frac{\partial u}{\partial t}$ term. 'convection' (under the first bracket) points to the αu term. 'convection' (under the second bracket) points to the $\beta \cdot \nabla u$ term. 'source' (under the third bracket) points to the au term. A large bracket labeled 'conservative flux' encompasses the entire divergence term $-\nabla \cdot (c \nabla u + \alpha u - \gamma)$.

Diffusion Equations

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