

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

The diagram illustrates the physical interpretation of the terms in the equation:

- diffusion**: Points to the term $\nabla \cdot (c \nabla u)$.
- source**: Points to the term αu .
- absorption**: Points to the term $-\gamma$.
- mass**: Points to the term $e_a \frac{\partial^2 u}{\partial t^2}$.
- damping/mass**: Points to the term $d_a \frac{\partial u}{\partial t}$.
- convection**: Points to the term $\beta \cdot \nabla u$.
- source**: Points to the term au .
- conservative flux**: Points to the entire term $\nabla \cdot (c \nabla u + \alpha u - \gamma)$.

Diffusion Equations

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