

The convection-diffusion equation for the transport of temperature

$$\frac{\partial T}{\partial t} = -U \frac{\partial T}{\partial x} + k \frac{\partial}{\partial x} \left(\frac{\partial T}{\partial x} \right) + S$$

is solved by a Finite Volume Method.

References

- [1] Computational Fluid Dynamics Fundamentals Course. Aidan Wimshurst. 2019.
- [2] An Introduction to Computational Fluid Dynamics: The Finite Volume Method. H. Versteeg, W. Malalasekera. 2007