

## **Study of non reacting solute transport in a porous media**

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This study describes the transport and dispersion of non reacting solute in porous media. Generally this study is realized experimentally and numerically. The solute is continuously injected along a line source with constant rate flow. In a porous media, the transport of inert solute is described by the advective–dispersive equation. The numerical solution of this equation gives the concentration distribution along the porous media. The resolution of this equation is based on the finite element method; the resulting linear system is solved by using the implicit Euler method and finite difference method, exactly the implicit scheme. The results of comparison of numerical calculation with experimental results show that the numerical method gives corrects curves.