MODFLOW-SURFACT

Software application for analysing subsurface systems and one of the most comprehensive flow and transport modelling tools available.

Built around the MODFLOW code, it includes advanced computational modules based on robust, e(d t)9(d o5 (t)5o)1.2 (b)5 (u)9G(e)6 0 1 Tf5 (D) (u)7(dvo5 -K1.27D (l6)1.d o)1.6n7(ds(u)-1.1s)5 (t6(dvo54 (s)(n r)12

The software overcomes limitations and eliminates restrictions associated with MODFLOW and its current transport counterparts e.g. rewetting of drained cells, handling of pumping wells, solute mass balance problems, numerical dispersion and oscillations, and the implicit assumption of the negligible impact of transient flow storage effects on transport.

Key Features

HGL, the MODFLOW-SURFACT developers, have released the new version of MODFLOW-SURFACT V.4:

- Density dependent flow and transport

Time varying material properties

- R

Curvilinear Grid option for non rectangular grids in the areal plane

- Fully and variably saturated flow and transport modelling

- Prescribed ponding recharge and seepage face conditions, as well as delayed yield

- Adaptive time stepping to promote stability and convergence for flow and transport simulations

- Recharge package overcomes unphysical predictions for unconfined systems

community

Information

Comes with complete documentation including a User's Manual and step by step tutorials