Modelling regional groundwater flow, contaminant and heat transport in the subsurface—these are some of the fields where FEFLOW Essentials excels. FEFLOW is the globally leading software for more complex groundwater modelling tasks. With our new FEFLOW Essentials package, you can now take advantage of FEFLOW’s effective concepts, tools and workflows for your everyday projects at an attractive price.

No problem if your tasks become more demanding and you require access to additional features: On upgrading from FEFLOW Essentials to another licence, all model files remain fully compatible.

WHY FEFLOW ESSENTIALS?

- Unstructured meshes
- Stable and efficient numerical schemes and methods
- Professional and flexible user interface
- Solute and heat transport
- Groundwater age/exit probability calculation
- User interface to PEST for automatic calibration and uncertainty analysis
- Premium user support
- Free Viewer mode for visualisation and post-processing

APPLICATION AREAS

WATER SUPPLY
- Catchment-zone analysis
- Travel-time calculation
- Resource calculation
- Contamination-risk assessment
- Operation optimisation

GROUNDWATER ALLOCATION
- Water-origin analysis
- Regional allocation optimisation
- Positioning of new wells/well fields

DEWATERING
- Regional impact analysis
- Water-volume estimation
- Optimisation

REMEDINATION
- Contaminant spreading
- Groundwater-flow optimisation

IMPACT ANALYSIS
- Regional effect of dewatering
- Contaminant dispersal
- Heat/cold dispersal

THERMAL RESOURCE MANAGEMENT
- Regional heat-flow simulation
- Optimisation of competing thermal uses

FEFLOW
**FULL FLEXIBILITY**

You expect software to support your preferred way of doing things rather than forcing its concepts on you?

**FEFLOW is your tool.**

The efficient FEFLOW user interface provides flexible tools that support your data, your input order, your preference for looking at your model. You decide whether the model boundary is read from a map or digitised on screen, whether you prepare data in files or databases or enter them manually, and what you would like to see in a view window at a certain stage.

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**TRUST OUR EXPERIENCE**

Continuously developed since 1979, FEFLOW has been the trusted software of choice for thousands of the most experienced groundwater modellers all around the world for many years. Based on rigorous science and up-to-date software technology, FEFLOW provides a maximum of reliability, stability and efficiency. Every feature of FEFLOW has undergone extensive testing and careful benchmarking, important parts of which are precisely documented in the accompanying material.

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**VISUALISATION**

FEFLOW provides excellent planar, cross sectional and 3D visualisation features. Present your modelling results easily as high-quality images or in video sequences.

Stereoscopic visualisation and image/video export provide a level of insight into simulation models that has never been reached before. As an added benefit, they may help impress your client when presenting simulation results.

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**FEPEST**

Parameter estimation and uncertainty analysis become much easier with FePEST, a graphical interface for using the PEST freeware (developed by John Doherty) with your FEFLOW Essentials models. The convenient tools in FePEST guide you through the steps required for a certain task.

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**GROUNDWATER AGE**

FEFLOW Essentials provides the means to easily perform groundwater-age, lifetime-expectancy and exit-probability calculations. With this functionality, the characterisation of a groundwater system reaches a new level of detail. For example, the catchment of a well field can be divided into zones of short or long groundwater travel times (i.e., to assess contamination risk), produced water can be partitioned according to water origin (river, recharge, artificial recharge, etc.), and capture zones can be identified including uncertainty aspects.

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**BENEFITS**

Are you looking for groundwater modelling software that is easy to use, yet comprehensive, reliable, globally accepted and well-established?

**FEFLOW is the answer.**

Thousands of users around the world trust FEFLOW, not least because they know that highly qualified user support is only an e-mail or a phone call away.

The high-quality software design is complemented by competent and experienced user support, frequent open enrolment and in-house training courses on various levels, regular local and international user conferences and a lively online user community at forum.mikebydhi.com.

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**LEARN MORE ABOUT FEFLOW ESSENTIALS**

For more information on all available licence options and feature levels, visit www.feflow.com/essentials

Contact: mikebydhi.de@dhigroup.com

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