



FEFLOW: Finite Element Modeling of Flow, Mass and Heat Transport in Porous and Fractured Media

Hans-Joerg Diersch

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FEFLOW is an acronym of *Finite Element subsurface FLOW simulation system* and solves the governing flow, mass and heat transport equations in porous and fractured media by a multidimensional finite element method for complex geometric and parametric situations including variable fluid density, variable saturation, free surface(s), multispecies reaction kinetics, non-isothermal flow and multidiffusive effects. FEFLOW comprises theoretical work, modeling experiences and simulation practice from a period of about 40 years. In this light, the main objective of the present book is to share this achieved level of modeling with all required *details* of the physical and numerical background with the reader. The book is intended to put advanced theoretical and numerical methods into the hands of modeling practitioners and scientists. It starts with a more general theory for all relevant flow and transport phenomena on the basis of the continuum approach, *systematically* develops the basic framework for important classes of problems (e.g., multiphase/multispecies non-isothermal flow and transport phenomena, discrete features, aquifer-averaged equations, geothermal processes), introduces finite-element techniques for solving the basic balance equations, in detail discusses advanced numerical algorithms for the resulting nonlinear and linear problems and completes with a number of benchmarks, applications and exercises to illustrate the different types of problems and ways to tackle them successfully (e.g., flow and seepage problems, unsaturated-saturated flow, advective-diffusion transport, saltwater intrusion, geothermal and thermohaline flow).

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Sergio Kelley:

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Renee Chagnon:

The book untitled FEFLOW: Finite Element Modeling of Flow, Mass and Heat Transport in Porous and Fractured Media contain a lot of information on the idea. The writer explains the woman idea with easy technique. The language is very simple to implement all the people, so do not necessarily worry, you can easy to read the idea. The book was published by famous author. The author will take you in the new period of time of literary works. You can easily read this book because you can read more your smart phone, or program, so you can read the book in anywhere and anytime. If you want to buy the e-book, you can open their official web-site and order it. Have a nice learn.

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