



Computational Methods in Water Resources XII, Vol. 1: Computational Methods in Contamination and Remediation of Water Resources

Carlos A. Brebbia, George F. Pinder, William G. Gray, George F. Pinder, Carlos A. Brebbia

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This book contains part of the Proceedings of the Twelfth International Conference on Computational Methods in Water Resources, which was held in Crete, Greece, June 15-19, 1998.

The proceedings present the latest developments and applications of computational techniques in surface and subsurface hydrology, including mathematical and numerical modeling of physical, biological and chemical processes related to water, as well as other associated topics, such as algorithmic methodologies, parameter estimation and software development.

Groundwater management (18 papers):

Groundwater management using hypermedia- and WWW- techniques (U. F. Meissner & J. Dias)

Groundwater resources management under uncertainty (H. Kunstmann, W. Kinzelbach & G. van Tonder)

A two parameter release model in low level waste disposal sites (D. H. Smalley, P. N. Humphreys, T. Johnstone & M. Randall)

Pumping cost analysis in groundwater management, using the MODMAN (modflow management model) (A. Psilovikos & C. Tzimopoulos)

Limits of 3-D numerical flow and transportation modeling for the simulation of a vertical circulation flow system in the remediation of a research field site (M. Scholz, J. Stamm & T. I. Eldho)

Optimal water level field measurements for groundwater quality management models (A. Criminisi & T. Tucciarelli)

Cost-effective groundwater quality sampling network design (G. S. Herrera & G. F. Pinder)

Remediation tradeoffs addressed with simulated annealing optimization (L. L. Rogers, V. M. Johnson & R. B. Knapp)

Monte Carlo techniques for estimating solution quality in stochastic groundwater management models (D. W. Watkins Jr., D. P. Morton & D. C. McKinney)

Optimal design of groundwater remediation systems with treatment plant considerations (A. A. Spiliotopoulos, G. P. Karatzas & G. F. Pinder)

Optimal plume control based on advective transport (A. Mulligan & D. Ahlfeld)

Numerical simulation of in situ bioremediation (B. J. Travis)

Flow simulation of a system of groundwater circulation well and pumping well for NAPL site remediation (J. Stamm, T. I. Eldho & M. Scholz)

Oxygen- and nitrate-based biodegradation of aromatic hydrocarbons using Monod-Kinetics: application of a simplified numerical algorithm (M. Rashid & J. Kalwarachchi)

A fuzzy logic approach to health risk-based design of groundwater remediation (M. M. Ozbek & G. F. Pinder)

In situ electrokinetic remediation of aquifer contaminated by heavy metal (S. Shiba & Y. Hirata)

Evaluation of risk from groundwater contaminants: Numerical experiments (J. Furst, F. Konecny, H. P. Nachtnebel & S. Hobor)

GIS multicriterion's analysis of the police sedimentary basin vulnerability (Z. Hrkal).

Subsurface Transport (17 papers):

Efficient and robust numerical modeling of variably saturated flow in layered porous media (C. T. Miller, G.

A. Williams & C. T. Kelley); Infiltration plume in porous media. Comparison between numerical results and a simplified theory (C. Oltean & M. A. Bues); Numerical investigation of the potential influence of advection-induced phase change on in situ bioventing operations (L. G. Glascoe, L. M. Abriola & S. J. Wright); Effects of hysteresis in capillary

pressure-saturation relationships on predicting LNAPS mobility (Y. Deng & M. Pantazidou); Correlations for mass transfer coefficients applicable to NAPL pool dissolution in subsurface formations (C. V. Chrysilopoulos & T.-J. Kim); Spatial and temporal variation in composition in multicomponent NAPLs (C. A. Peters, E. D. Blackburn & M. A. Celia); An FCT model of contaminant transport on unstructured meshes (M. Yu & D. E. Dougherty); A shock-capturing finite-element technique for unsaturated-saturated flow and transport problems (H.-J. G. Diersch); Stokes flow in random, anisotropic and correlated

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