

Functional Comparison Chart

GETFLOWS and Other Simulators

	Dimension	Fluid Flow								Material Transport								Heat Transport					Sediment Transport			Deformation			Discretization		Parallel Computing	Preprocessor	Manual				
		Surface Flow	Water	Air	Water Vapor	NAPL	Density Flow	Compressibility	Viscosity	Advection	Dispersion/Diffusion	Adsorption	Dissolution	Precipitation	Volatilization	Ion Exchange	Chemical Reaction	Decay	Advection	Conduction	Eradiation	Heat Exchange	Phase-Transfer	Bed Load	Suspended Load	Landslide	Landform Change	Elastic	Inelastic	Coupled Flow			Spatial	Temporal	Theoretical	Operating	V&V
GETFLOWS	3	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X		X				IFDM	FI	X		X			
MIKESHE	3	X	X						X	X	X						X						X	X		X				FDM			X	X	X	X	
GFLOW	2.5	X	X																											FDM			X	X	X		
GSFLOW	3	X	X																											FDM				X	X	X	
MT3DMS	3		X						X	X	X					X	X													FDM	FI			X	X	X	
MODFLOW-2000	3	X	X																								X	X	X	FDM	FI		X	X	X		
RT3D	3	X	X						X	X	X					X	X													FDM			X	X	X	X	
FEHM	3	X	X	X			X	X	X	X	X	X				X	X	X	X		X	X								FEM	FI			X	X	X	X
TOUGH2	3		X	X	X	X	X	X	X	X	X	X		X		X	X	X			X	X								IFDM	FI	X		X			
DTRANSU	3		X				X	X	X	X	X																			FEM	FI		X	X	X		
CODE_BRIGHT	3		X	X	X		X	X	X	X		X						X	X			X						X	X	X	FEM	FI		X	X	X	X
OpenGeoSys	3	X	X	X			X	X	X	X	X	X		X		X	X	X	X		X	X						X	X	X	FEM		X	X	X	X	X
TOUGH-FLAC	3	X	X	X	X	X	X	X	X	X	X	X	X					X	X			X						X	X	X	IFDM						
ROCMAS	3	X	X	X						X								X	X									X	X	X	FEM						
STOMP	3	X	X	X	X	X	X	X	X	X	X	X		X		X	X	X			X	X								IFDM	FI		X	X	X	X	
HST3D	3	X					X	X	X	X	X					X	X	X												FDM			X	X	X	X	
HYDROTHERM	3	X	X	X			X	X										X	X		X	X								FDM	FI		X	X	X	X	

FDM: Finite Differential Method
 IFDM: Integral Finite Differential Method
 FEM: Finite Element Method
 FI: Fully Implicit Method

Researched by
 Geosphere Environmental Technology Corp.
 December 1, 2009