



Coupled Processes in Subsurface Deformation, Flow, and Transport

Mao Bai, Derek Elsworth

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"Coupled Processes in Subsurface Deformation, Flow, and Transport" presents a rational and unified treatment of coupled processes, with emphasis on the coupling and feedbacks present where solid deformation, fluid flow, and solute transport combine, and in the representation of heterogeneous media through multi-porosity approaches. Analytical and numerical solutions are presented for subsurface systems subjected to varying mechanical, thermal, and chemical disturbances. This is an invaluable reference book or teaching text, from which civil, mining, petroleum, environmental, chemical, process, and geological engineers, and geological scientists will gain an understanding of the theoretical bases and connections between deformation, flow, and transport in the subsurface. Likewise, readers will learn to distinguish between coupled and uncoupled processes and their respective restraints and significances, comprehend the effects of heterogeneities on deformation, flow, and transport in the subsurface, review or learn popular and special analytical and numerical methods in the related fields, and link fundamental theories with practical applications in multidisciplinary areas. Significant, new, and never before published concepts, are included.



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