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Numerical Treatment of Multiphase Flows in Porous Media

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the International Workshop Held at Beijing, China, 2-6 August, 1999 | The need to predict, understand, and optimize complex physical and chemical processes occurring in and around the earth, such as groundwater contamination, oil reservoir production, discovering new oil reserves, and ocean hydrodynamics, has been increasingly recognized. Despite their seemingly disparate natures, these geoscience problems have many common mathematical and computational characteristics. The techniques used to describe and study them are applicable across a broad range of areas. The study of the above problems through physical experiments, mathematical theory, and computational techniques requires interdisciplinary collaboration between engineers, mathematicians, computational scientists, and other researchers working in industry, government laboratories, and universities. By bringing together such researchers, meaningful progress can be made in predicting, understanding, and optimizing physical and chemical processes. The International Workshop on Fluid Flow and Transport in Porous Media was successfully held in Beijing, China, August 2{6, 1999. The aim of this workshop was to bring together applied mathematicians, computational scientists, and engineers working actively in the mathematical and numerical treatment of fluid flow and transport in porous media. A broad range...


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