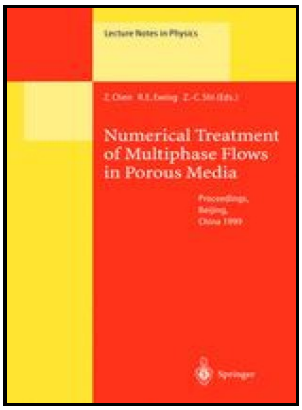
Method for computing unsteady flows in porous media

Longman Scientific & Technical - Approximate computation of unsteady moving



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318
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Relative Permeability: Unsteady State Techniques

Introduction In recent years a considerable effort has been directed to the theory ofisothermal flow of gases through porous media. Finally, production of real gascan be correlated in terms of the real gas pseudo-pressure and shown to besimilar to liquid flow as described by diffusivity equation solutions.

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The most important contribution to the theory of flow of idealgases through porous media was the conclusion reached by Aronofsky andJenkins 14 that solutions for the liquid flow case 15 couldbe used to generate approximate solutions for constant rate production of idealgases. The Keller-box method is a finite difference based implicit numerical scheme which was developed by Cebeci and Bradshaw. Thus the data obtained can be influenced by saturation history and flow rate.

A Method for Computing Unsteady Flows in Porous Media

There is evidence which indicates that Darcy's law is inadequate to describe gas flow at some flow rates of practical interest. In addition, the actual process of developing the solution algorithm is time-consuming in comparison to SRM.

Approximate computation of unsteady moving

This paper provides a different approach to the implementation of the spectral relaxation method introduced in Motsa et al. The volumes of the emerging fluids oil and water are measured at the other end of the core, and the differential pressure across the core is also measured. This is for a number of reasons.

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Volume 1 covers Analytic Methods. As well, fluids are not injected simultaneously into the core.

On a bivariate spectral relaxation method for unsteady magneto

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