

研究进展与工程实录

油气流 - 固耦合渗流研究进展

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摘要 介绍了多孔介质流 - 固耦合渗流研究的重要意义, 对多孔介质流 - 固耦合渗流研究进展加以综述和讨论, 提出了进一步深入研究的方向, 并着重讨论了近十年来油气流 - 固耦合多相渗流及其应用研究和各种耦合方法, 为其他渗流工作提供一定的参考。

关键词 [渗流力学](#) [流 - 固耦合](#) [数值模拟](#) [多孔介质](#)

分类号

ADVANCES IN RESEARCH ON FLUID-SOLID COUPLING

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Abstract

The important significance for the research on fluid-solid coupling seepage in porous media is introduced. Developments of the fluid-solid flow in the porous media are reviewed; and the further research directions are also presented. Particularly, studies on the fluid-solid coupling multiphase flow and its application and studies on various coupling methods in the last ten years are discussed. The fluid-solid coupling flow is concerned chiefly with flow of oil and gas through porous media. It is considered that the establishment and development of interaction coupling for multiphase fluids and multifield models and its numerical method have great meanings of the fluid-solid coupling mechanics.

Key words [seepage mechanics in porous medium](#) [fluid-solid coupling](#) [numerical simulation](#) [porous medium](#)

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