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含油气盆地地球动力学模式 [点此下载全文](#)

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摘要：

文章讨论了含油气盆地地球动力学模式, 其中着重讨论了以下几个问题: (1) 沉积盆地地球动力学研究的进展, 使得能够提出一种根据盆地所处的板块位置和地球动力学模型进行划分的含油气盆地分类; (2) 尽管我们有一些古生代克拉通盆地的地球动力学模式, 但其成因机制仍缺乏令人信服的解释; (3) 通过大陆内裂谷火山岩化学成分、地温场、构造变形、岩石圈结构以及区域板块构造背景综合分析, 我们建立了六种大陆裂谷形成的地球动力学模式; (4) 前陆盆地的形成与其周缘造山带密切相关, 其地球动力学模式是大陆岩石圈对褶皱冲断带构造负载的挠曲响应;

关键词：[沉积盆地](#) [地球动力学模式](#) [板块构造](#) [含油气盆地](#)

THE GEODYNAMIC MODELS OF PETROLEUM-BEARING BASINS [Download Fulltext](#)

[Chen Fajing](#) [Wang Xinwen](#)

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Abstract：

Geodynamic models of petroleum-bearing basins are discussed and several problems are emphasized in this paper. 1. The advances in the geodynamic study of sedimentary basins enable geologists to propose a scheme of classification of petroleum-bearing basins on the basis of the positions of basins in a tectonic plate and the geodynamic models. 2. Although we have some plausible geodynamic models of Paleozoic intracratonic basins, we still lack convincing explanation for their formation mechanism. 3. From an integrated analysis of the chemical composition of volcanic rocks, geothermal field, structural deformation, lithosphere structure and regional plate tectonic setting of the intracontinental rift, six geodynamic models of formation of continental rifts have been constructed. 4. The formation of foreland basins is closely related with their neighbouring oro-genic belts. The geodynamic model is the flexural response of the continental lithosphere to the tectonic load of the thrust-fold belt. 5. Strike-slip extensional basins closely resemble extensional basins modified by strike-slip faults. Because of the resemblance, many extensional basins are mistaken for pull-apart basins. Credible identification calls for integration of criteria in plan with those in section.

Keywords：[sedimentary basin](#) [intracontinental rift](#) [foreland basins](#) [geodynamic model](#) [plate tectonics](#)

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