

عنوان مقاله:

A Model for Asphaltene Precipitation in Petroleum Reservoirs

محل انتشار:

نهمین کنگره ملی مهندسی شیمی ایران (سال: 1383)

تعداد صفحات اصل مقاله: 11

نویسندگان:

Tabatabaei-Nejad - *Department of Chemical Engineering, Sahand University of Technology, Tabriz, Iran*

Hadi Ebrahimi - *Department of Chemical Engineering, Sahand University of Technology, Tabriz, Iran*

Hossein Ebrahimi - *Department of Mechanical Engineering, Isfahan University of Technology, Isfahan, Iran*

خلاصه مقاله:

Asphaltene depositions are serious problem encountered during the exploration of the oil reservoirs, miscible flooding, heavy oil recovery, or even primary depletion. A thermodynamic model was used to model asphaltene precipitation in crude oil in the reservoir. The asphaltene is assumed pure pseudo-component in solid phase. The characterization of unknown-heavy fraction of petroleum (i.e. C7+) was obtained with Whitson et al. method and assumed the heaviest component of crude oil is divided by two components, precipitating and non-precipitating. The results are good agreement with some experimental data.

کلمات کلیدی:

Petroleum Reservoirs; Asphaltene Precipitation; EOS; Thermodynamic Model; VLE

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/29787>

