

عنوان مقاله:

Fitting a mixed regression model for C7+ characterization of petroleum fluids

محل انتشار:

دومین کنفرانس ملی فرآیندهای گاز و پتروشیمی (سال: 1398)

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خلاصه مقاله:

Characterization methods of heptane-plus fractions (C7+) have a significant effect on the phase equilibrium prediction of petroleum fluids and their reservoir simulations. C7+ characterization is encountered with major problems such as the limitation of available data and the wide range of boiling points for reservoir fluids and crude oils. In the present work, an extensive statistical analysis was conducted on 900 experimental data points collected from different gas condensate and crude oil systems. A new mixed linear regression model was proposed to characterize the C7+ fractions by SG7+ as only available information with a good accuracy. Also, a different data set obtained from North Sea oil was utilized to evaluate the model performance.

کلمات کلیدی:

Petroleum fluids, Heptane-plus fractions, Characterization, The mixed linear regression model

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