## THERMODYNAMICS

原油中石蜡沉积的热力学模型

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## Thermodynamic Modeling of Wax Precipitation in Crude Oils

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Abstract

Most of the wax appearance temperature and the amoust of solid precipitated in the different conditions. A modified thermodynamic solid-liquid transitions are also established in this work on the basis of the data from the literature. The results predicted was consist of several solid phases is adopted in this research, and the solid-olid transition is also considered in the modified model. The properties of the pseudo-components are determ solid and solid-liquid transitions are also established in this work on the basis of the data from the literature. The results predicted by the proposed model for three crude oil systems are compared with the experimental data and the calculated results from the literature, and good agreement is observed.

Key words waxy crude oil solid-solid transition, solid-liquid equilibrium, thermodynamic model, wax precipitation

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