

## Correlation Of Fluid Properties And Geochemical Parameters

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The evaluation of physical properties of hydrocarbon mixtures is an important step in the design of various stages of oilfield operations. The fluid properties, which change as pressure and temperature change, must be evaluated for both reservoir engineering and production design operations. For example, the production design operations.

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On the basis of their research work (Zhou and Shah, 2006; Zhou, 2006), the following friction factor correlation for Newtonian fluid flow in CT with roughness was proposed. (5.5)  $f_{\text{rough}} = 0.084 \left( \frac{a}{R} \right)^{0.1} N_{\text{Re}}^{0.12} \left( 0.125 + 0.00140 N_{\text{Re}}^{0.32} \right) \left[ 1 + 4.0 \log \left\{ \frac{h}{r} \frac{3.7065}{d} \frac{5.0452}{N_{\text{Re}}} \right\} \right]^{-2}$

Published Correlation - an overview | ScienceDirect Topics

Robert Penfold, Shabira Abbas, Sture Nordholm, Effective potential approach to bulk thermodynamic properties and surface tension of molecular fluids I. Single component n-alkane systems, Fluid Phase Equilibria, 10.1016/0378-3812(96)02995-0, 120, 1-2, (39-67), (1996).

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Abstract. A multiparameter corresponding-states correlation has been developed to describe fossil-fluid thermodynamic properties needed to design fluid-flow, heat-exchange, and other unit operations in coal-liquefaction plants. Three equation-of-state parameters, a molecular-size/separation parameter, a molecular-energy parameter, and a molecular-orientation parameter are used to characterize nonpolar and slightly polar aromatic hydrocarbons.

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PROPERTIES OF FLUID - The Constructor

Prandtl numbers for this correlation should be between about 0.7 and 120, and the physical properties should be evaluated at the bulk fluid temperature. The Dittus-Boelter correlation itself is given by  $(9.20) Nu = 0.023Re^{0.8}Pr^{0.4} \mu_c / \mu = 0.023 k D Re^{0.8} Pr^{0.4}$

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